The following catalog has gaps in its page numbers, or doesn't have any numbers. We have chosen to leave the page numbering in the order that Acrobat assigns it.

PARTS CATALOG

FOR

Onan ELECTRIC GENERATING PLANTS



ONAN

1400 73RD AVENUE N.E. • MINNEAPOLIS, MINNESOTA 55432

A DIVISION OF STUDEBAKER CORPORATION

IN CANADA: Guelph, Ontario • N.Y. INTERNATIONAL OFFICE: Empire State Bldg.

PARTS CATALOG

INSTRUCTIONS FOR ORDERING REPAIR PARTS

ONAN PARTS

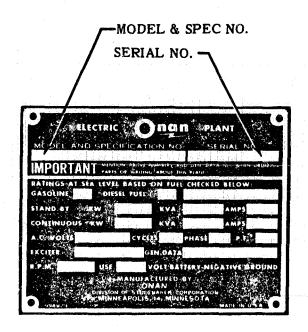
All parts in this list are **Onon** parts. For **Onon** parts or service, contact the dealer from who you purchased this equipment or your nearest authorized service station. To avoid errors or delay in filling your order, please refer to the **Onon** nameplate located on the upper right side of the flywheel housing and give the complete:

INTERNATIONAL HARVESTER PARTS

All International Harvester parts must be ordered from the International Harvester Company, Chicago, Illinois or the nearest International Harvester Construction Equipment distributor or dealer.

Refer to the International Harvester nameplate located on the right side of the flywheel housing as viewed facing the radiator end.

When ordering parts or requesting service information supply all information stated on engine nameplate and engine serial number which is stamped on front of cylinder block directly below right hand cylinder head.



MADE	IN UNITED STATES O	F AMERICA BY
NTERNATIO	NAL HH	HARVESTER CO
(HICAGO,	LLINOIS
MODEL		
SERIAL NO.		
MAX.	FU	
IDLE SPEED	SPE	
DO	NOT OVI	FRICAD

This catalog applies to the standard Onan KR Series plants as listed below. Powered by an International Harvester UV549 engine (see International Harvesters Manual). Engine parts modified or added by Onan will be in this list and have Onan part numbers. These supersede similar parts listed in the International Harvester manual. Onan parts are arranged in groups of related items and are identified by a reference. All parts illustrations are typical. Unless otherwise mentioned, parts are interchangeable. Right and left plant sides are determined by facing the front end of the engine.

PLANT DATA TABLE

MODEL & SPEC NO. *		ELECTRICAL DATA				
		WATTS**	VOLTS	CYCLES	PHASE	WIRE
HOUSED	UNHOUSED					
70KR-53R/	70KR-53R8/	70,000	120/240	50	1	3
70KR-53UR/ £	70KR-53UR8/ £	70,000	120/240	50	i	3
70KR-54R/	70KR-54R8/	70,000	120/208	50	3	4
70KR-54XR/	70KR-54XR8/	70,000	277/480	50	3	4
70KR-55DR/ *	70KR-55DR8/ *	70,000	120/240	50	3	4
70KR-57R/	70KR-57R8/	70,000	220/380	50	3	4
70KR-59XR/	70KR-59XR8/	70,000	347/600	50	3	4
85KR-3R/	85KR-3R8/	85,000	120/240	60	1	3
85KR-3UR/ £	85KR-3UR8/ £	85,000	120/240	60	1	3
85KR-4R/	85KR-4R8/	85,000	120/208	60	3	4
B5KR-4XR/	85KR-4XR6/	85,000	277/480	60	3	4
85KR-5DR/ *	85KR-5DR8/ *	85,000	120/240	60	3	4
85KR-6R/	85KR-6R8/	85,000	480	60	3	3
85KR-9R/	85KR-9R8/	85,000	600	60	3	3
85KR-9XR/	85KR-9XR8/	85,000	347/600	60	3	4

- * The Specification Letter advances (A to B, B to C, etc.) with manufacturing changes.
- ** Maximum rating is shown. Continuous rating also appears on nameplate.
- £ U designates unity power factor.
- *- This is a delta-wound 240 volt model with one phase center-tapped. A limited amount of 1 phase, 120/240 volt power can be utilized together with 3 phase power as long as no terminal current exceeds the rated nameplate current.

REPLACEMENT ENGINE

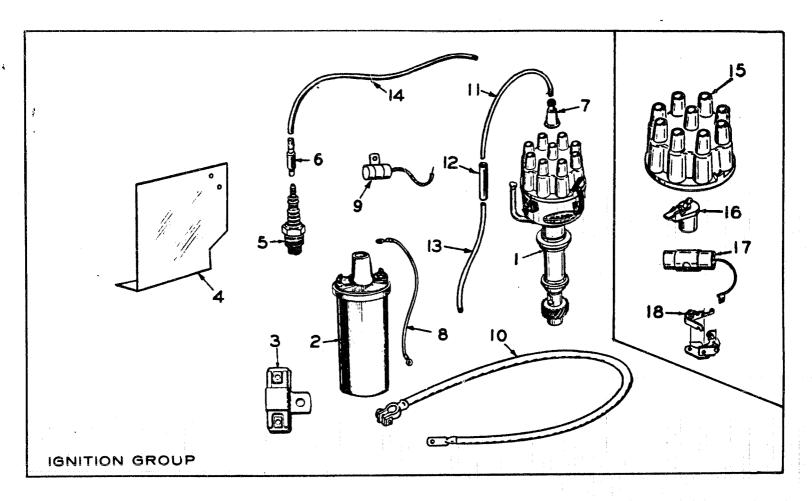
100P441

Engine, Replacement (Replaces #100P265, and #100P307) - International Harvester Co. Model UV-549, Spec 0-27E.

General Description:

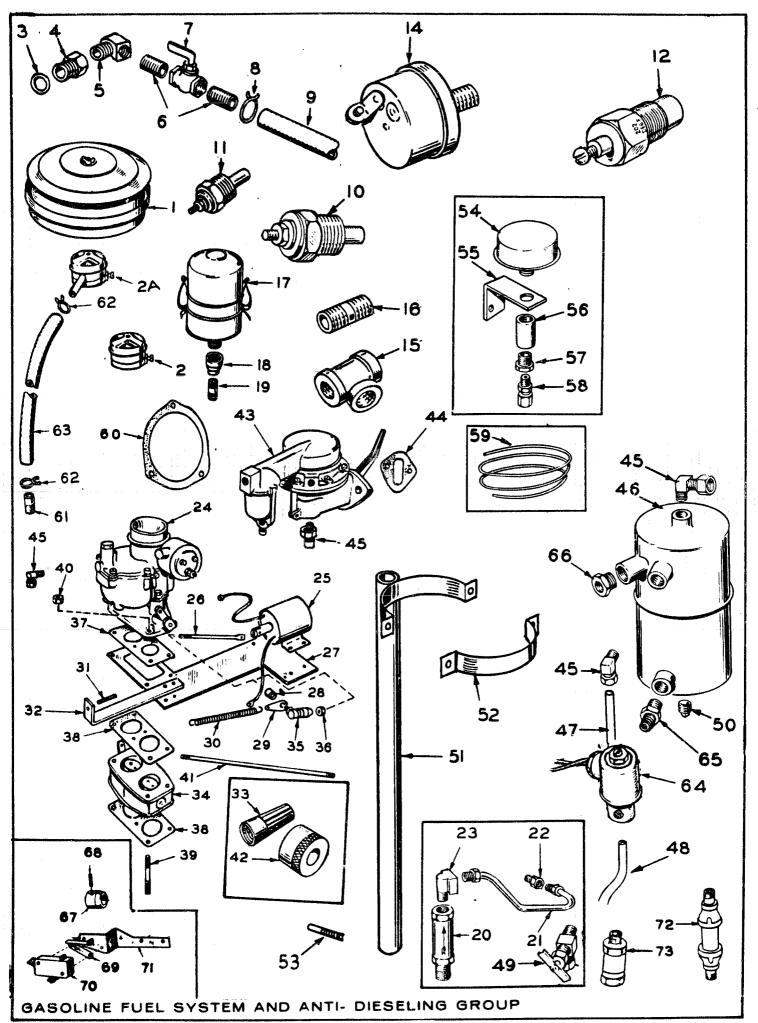
Includes - Complete Cylinder Block, Oil Pan, Water Pump, Oil Filter, Governor, Oil Cooler, Exhaust Manifolds, and Engine Mounts.

Excludes - Carburetor, Fuel Pump, Air Cleaner, Fuel Filter, Starter & Solenoid, Charge Generator, Regulator & Wire Harness, Ignition Coil, Distributor, Spark Plugs & Leads, Oil Pressure & Water Temperature Gauge Sender, Oil Pressure Switch, High Water Temperature Cut-Off Switch, Anti-Dieseling Control, Reservoir Tank, Bracket & Fittings, Radiator, Fan Blades & Belt, Exhaust Header, Muffler and Exhaust Tube.



REF.	PART NO.	QTY. USED	PART DESCRIPTION
1	166-282	1	*Distributor Assembly (Delco Remy #1110652)
2	166-280	1	Coil Ignition - 12 Volt
3	166-281	1	Resistor, Ignition Coil
4	1338158	1 -	Shield, Ignition Coil Heat
5	167-127	8	Plug, Spark
6	314P156	8	Suppressor, Spark Plug
7.	160A558	10	Nipple, Rubber - (9) Distributor,
8	336 A3 32	F	Lead, Ignition Coil to Resistor- 5 1/4" Long
9	312A15	1	Condenser, Ignition Coil - 0.1 Mfd.
10	CABLE, B	ATTERY	
	416A77	1	28 " Long
	416A21	ŧ	20+1/2 "Long
11	167A1316	ı	Lead, Distributor to Suppressor - 7-1/4" Long
12	314P6	1	Suppressor, Distributor
13	167A1312	1	Lead, Suppressor to Ignition Coil
14	LEAD, SPA	ARK PLU	G
	167A1332	i	Cylinder No. 1 and 7
	167A1333	1	Cylinder No. 2 and 4
	167A1334	1	Cylinder No. 3
	167A1335	1	Cylinder No. 5
	167A1336	i	Cylinder No. 6 and B
15	166-318	1	Cap, Distributor
16	166-319	i	Rotor, Distributor
17	166-320	1	Condenser, Distributor
18	166-321	1	Point Set, Breaker

^{* -} For component parts not listed, contact your nearest Delco Remy Dealer, or Delco Remy Division of General Motors Corp., Anderson, Indiana 46011.



REF.	PART NO.	QTY. USED	PART DESCRIPTION	REF.	PART NO.	QTY. USED	PART DESCRIPTION
1			41	STUD, GO	VERNOR	CONTROL	
2	ADAPTER 140A525	, AIR CLE I	EANER Prior to Spec C and Begin Spec I		520A537 520A629	 	Prior to Spec G - 1/4 x 9-3/8" Spec G through K - 1/4 x 9-7/8"
2A	140A549	1	Spec C through H		520A517	ı	Begin Spec L - 1/4 x 7"
3	102A34	l .	Gasket, Oil Drain Adapter	42	141A372	3	Knob, Choke - Carburetor
4	102A33	!	Adapter, Oil Drain	43	149C730	13	Pump Assembly, Fuel
5	502-133	1	Elbow, Oil Drain - 90°	44	149A736	ľ	Gasket, Fuel Pump Mounting
6	505-100	2	Nipple, Oil Drain - 1/2"	45	502-24	4	Elbow, Compression Male - (1)
7 8	504P11	l I	Valve, Shut-Off - Oil Drain Clamp, Oil Drain Höse				Fuel Pump Outlet, (1) Reservoir
9	503-197 503-348	i	Hose, Oil Drain				Tank to Vent Line, (1)
10	193A108	i	Sender, Oil Pressure Gauge				Reservoir Tank Fuel Inlet,
11	193A104	i	Sender, Water Temp. Gauge	. 6	1500004		(1) Carburetor Inlet
12	309 A I 46	i	Switch, Water Temp. Cut-Off	46 47	159B294 159C686	1	Tank, Reservoir (Day) Line, Fuel - Pump to Reservoir
14	309 B64	ĺ	Switch, Oil Pressure	7′	1370000	1	Tank
15	509-59	1	Tee, Pipe (1/8 1) Oil Pressure	48	159A667	1	Line, Fuel - Reservoir Tank to
			Switch and Oil Gauge	"	. 577 1007	•	Carburetor
			Sender Mounting	49	504A39	ı	Valve, Shut-Off (Includes
16	505-104	t	Nipple, Close (1/8" x 1-1/2")				Strainer) Reservoir Tank to
			Oil Pressure Tee to Block	!			Carburetor Line - Spec A
17	140C518	i .	Cleaner, Crankcase Breather			_	Models Only
18	505-369	1	Coupling, Reducer (1/2" x 1/4") Breather Cleaner to Mounting	50	505-57	2	Plug, Pipe - 1/8" - Reservoir
			Nipple				Tank (I only used on Spec
19	505-99	1	Nipple, Close (1/4" × 7/8")	51	159B678	1	A Model's)
• •	303-77	•	Breather Cleaner to Cylinder]]	1375676	. •	Bracket, Reservoir Tank Mtg Includes Rear Half of Mounting
			Head Cover Mounting				Strap
20	123 A604	1	Valve, Metering - Breather	52	159A253	1	Strap, Reservoir Tank Mounting-
			System - Prior to Spec C	"	. 37, (233		Front Half
21	123B621	ŧ	Line, Breather - Metering Valve to Intake Manifold - Prior to	53	159A681	1	Bolt, Wedge - Reservoir Tank
			Spec C		150.4)	. 1	Bracket Fastening
22	502-31	1	Connector, Inverted Male -	54	159-41	I . i	Cap, Vent - Reservoir Tank
**	302-31	•	Breather Line to Intake	55	415A55	í	Breather - Spec A Model's Only Bracket, Vent Cap - Spec A
			Manifold - Prior to Spec C]	412033	•	Models Only
23	502-39	1	Elbow, Inverted Male - Breather	56	505-28	1	Coupling, Pipe (3/8") Vent Cap
			Line to Metering Valve -				to Reducer Bushing - Spec A
			Prior to Spec C				Models Only
24	141C635	!	*Carburetor Assy. (Zenith #12411A)	57	505-16	I	Bushing, Reducer (3/8 to 1/8)
25	307 B259	Į.	Solenoid & Lead Assembly,				Coupling to Compression
24	145 6 154	1	Anti-Dieseling	58	502-116	1	Connector, Compression -
26 27	145A124 145A186	1	Link, Solenoid Bracket, Solenoid Mounting				Reducer Bushing to Vent
28	150A302	i	Bushing, Throttle Spring Link		159A345	ı	Line - Spec A Models Only Line, Vent - Reservoir Tank
20	130/4302	,	to Ball Joint	59	137/343	r	Breather (5/16 "O.D. x
29	145A118	1	Link, Throttle Spring				12 Ft. Lg.) Spec A Models Only
30	145A158	i	Spring, Throttle	60	151B184	1	Gasket, Governor Flange
31	150A96	1	Stud, Throttle Spring Adjusting	61	505-10	1.	Nipple, Haif - 1/4 x 1"-
32	145A187	1	Bracket, Throttle Spring				Breather Hose Adapter -
33	332-614	2	Connector, Wire	1			Begin Spec C
34		EMBLY, T	THROTTLE	62	503-131	2	Clamp, Breather Hose - Begin
	145B188	1	Prior to Spec G	į			Spec C
	145B328	1	Spec G through K	63	503-119	!	Hose, Breather - Begin Spec C
25	145B410	3	Begin Spec L Joint, Ball - (1) Solenoid Link,	64	307 P565	1	Valve, Solenoid - Reservoir
35	150A638	3	(2) Governor Control Stud	1 ,-	502.02		Tank - Begin Spec B
36	115A25	4	Nut, Hex (1/4-28) Solenoid Link	65	502-82	ı	Nipple, Hex - 1/8" - Begin Spec B
50		•	(1), Governor Control Stud	66	159A705	1	Reducer - Restricted - Reservoir
			(2), Ball Joint (1)	"	137/103	•	Tank Return Outlet - Begin
37	145A189	ı	Gasket, Carburetor to Solenoid	i			Spec B
			Mounting Bracket	67	309 A 132	ı	Cam, Micro Switch - Begin
38	145A185	2	Gasket, Throttle Body - (1)				Spec F
			Upper, (1) Lower.	68	516-86	1	Pin, Roll - 1/8" x 3/4"-
39	520A457	4	Stud, Carburetor & Throttle				Cam - Begin Spec F
_		_	Body Mounting (5/16 x 3-1/8")	69	309P133	ı	Actuator, Micro Switch - Begin
40	110A445	4	Nut, Hex (5/16-24) Carburetor		300 1 1 - 2		Spec F
* . F.	r component	s contact	Retaining your nearest Zenith Carburetor	70	309A155	ı	Switch, Micro - Begin Spec F

^{* -} For components contact your nearest Zenith Carburetor dealer or Zenith Carburetor Division, The Bendix Corp., 696 Hart Ave., Detroit, Michigan.

REF.	PART NO.	QTY. USED	PART DESCRIPTION
71	309A131	l	Bracket, Micro Switch - Mounting - Begin Spec F
72	123A904	1	Flame Arrestor Assy., Spec G through H
73	123A960	1	Crankcase Vent, Begin Spec J
	141-640	ı	Repair Kit, Carburetor
	141-641	1	Gasket Kit, Carburetor
	193190R91	1	★Filter Assembly, Oil - Includes Element (Not Illustrated)
	193187R91	1	★Element, Oil Filter (Not Illustrated)

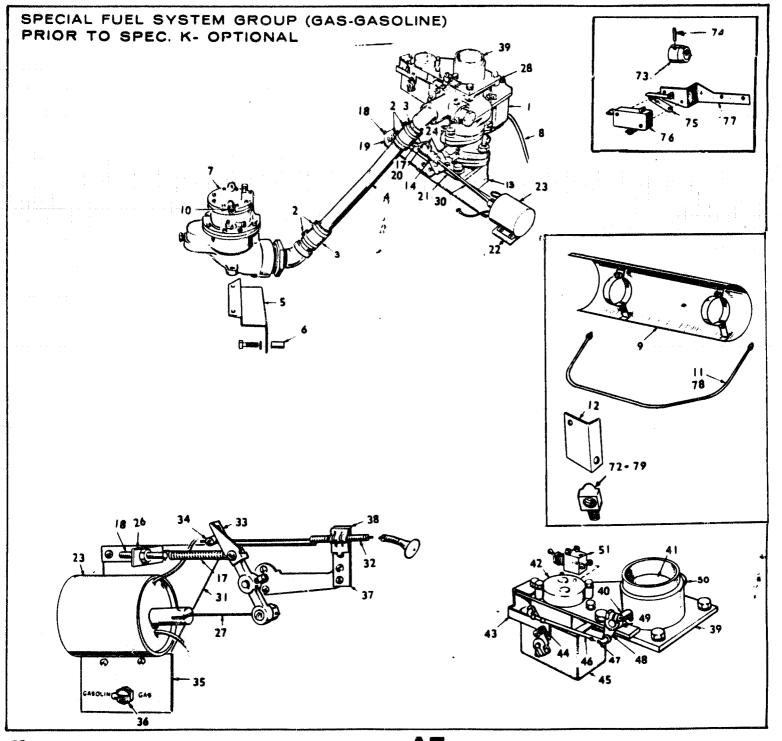
*- Part numbers listed for these parts are International Numbers.

Order parts or components from the International Harvester

Co., 401 North Michigan Ave., Chicago, Illinois 60611.

REF.	PART NO.	QTY. USED	PART DESCRIPTION
	GD422C7545	ı	#Governor Assembly - Prior to Spec D (Not Illustrated)
	GD427C7145	ı	######################################
	347003R91		*Governor Assembly - Spec G through K (Novi #4050078) - (Not Illustrated)
	151-371	ı	*Governor Assembly - Begin Spec L (Pierce) - (Not Illustrated)

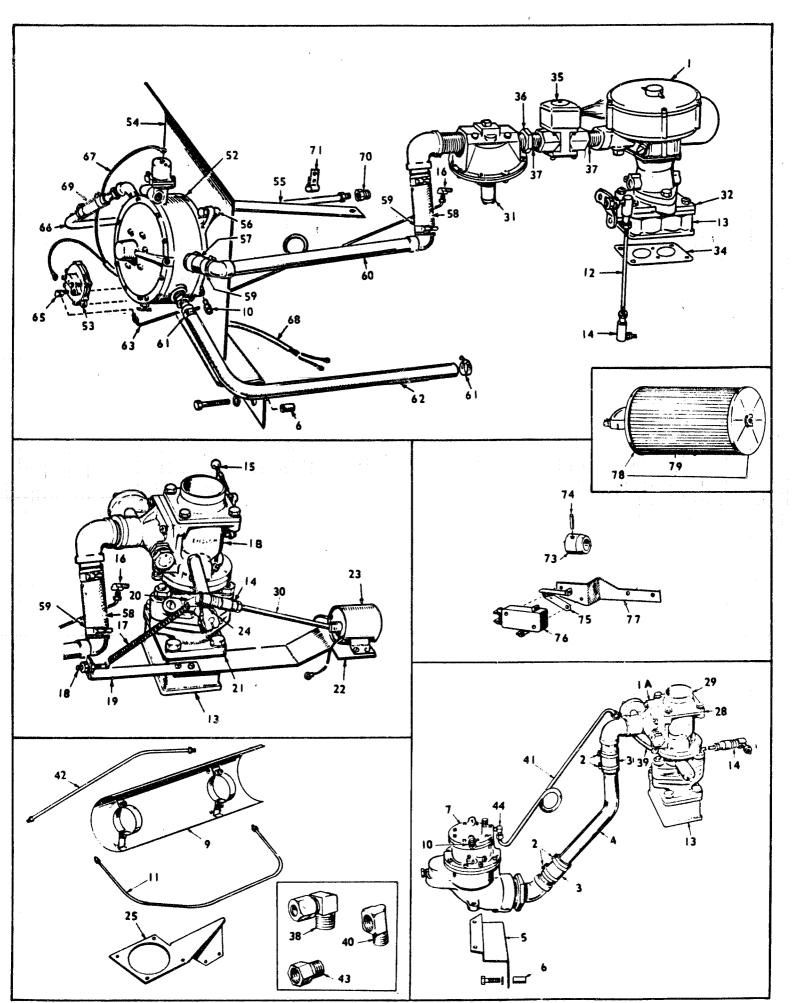
- ‡- Part numbers listed for these parts are Hoof Products Numbers. Order parts or components from the Hoof Products Company, Chicago, Illinois 60638.
- * Order parts or components for this governor (International #678045C91) from the International Harvester Company, 401 North Michigan Ave., Chicago, Illinois 60611.



REF.		QTY. USED	PART DESCRIPTION	REF.	PART NO.
NOTE		ate groups	beginning Spec K and for boly.	34	145A165
ŧ	*CARBURE		S-GASOLINE FUEL	35	308A150
	148C370 148C431	1	Prior to Spec E (Ensign #9234) Spec E through J (Ensign	36	308P88
2	503-107	4	#CCA200A117) Clamp, Hose	37	153 A274
3 4	503-355 148 A38 I	2 1	Hose - I-1/4 I.D. x 3" Long Tube, Fuel Line - Regulator	38	518B176
5	148C365	ı	to Carburetor Bracket, Regulator Mounting	39	153B292
6	403 A533	2	Spacer, Regulator Mounting Bracket	40	153A293
7 8	148A310 149A768	ł !	*Regulator (Ensign #9554) Line, Fuel Pump to Carburetor	41	153A281
9 i I	148C383 130B451	 	Shield Assembly, Heat Line, Oil Cooler to Cylinder	42	153A49
12	153A275	1	Block Bracket, Choke - Prior to	43	153A295
13	BODY ASS	SEMBLY, 1	Spec E THROTTLE	44	232A979
	145B188 145B328	1	Prior to Spec G Spec G through J	45	153A213
14 17	150A638 145A1 5 8	As Req. I	Joint, Ball Spring, Throttle - NOTE:	46 47	153A294 518-5
			Quantity of 2 Used Prior to Spec E.		153A283
18	150 A96	I	Stud, Throttle Spring Adjusting - NOTE: Quantity of 2 Used	48	
			Prior to Spec E.	49 50	153 A 282 148 A 430
19	145A187	!	Bracket, Throttle Spring		
20 21	145A118 145A189	1	Link, Throttle Spring Gasket, Carburetor Solenoid	51	308 A68
22	145C202	1	Mounting Bracket Bracket, Solenoid Mounting	72	502-42
23	307 B259	i	Solenoid & Lead Assembly, Anti-Dieseling	73	309A132
24	150A302	ı	Bushing, Throttle Spring Link to Ball Joint	74	516-86
26	145A194	•	Bracket, Choke Spring - Prior to Spec C	75	309P133
27	145A205	ı	Link, Solenoid to Choke - Prior to Spec E	76	309 A 155
28	145A195	I .	Gasket - Carburetor Air Inlet or Choke	77	309A131
30	145A124	1	Link, Solenoid	78	148C411
3	145C203	I	Bracket, Choke Solenoid - Prior to Spec E	79	502-4
32	153-110	1	Choke, Manual - Prior to Spec E		
33	145A213	I	Extension, Choke Arm - Prior to Spec E		

٠.	For components contact your nearest Ensign Carburetor
	dealer or Ensign Carburetor Div. of American Bosch,
	930 North York Road, Room 206, Hinsdale, Illinois.

REF.	PART NO.	QTY. USED	PART DESCRIPTION
34	145A165	t	Stop, Choke Wire - Prior to Spec E
35	308A150	. 1	Bracket, Switch Mounting - Prior to Spec E
36	308 P88	1	Switch, Choke (Gas or Gasoline) - Prior to Spec E
37	153 A274	ŧ	Bracket, Choke Wire - Prior to Spec E
38	518B176	1	Clip, Choke Wire - Prior to Spec E
39	153 B292	1	Adapter Assembly, Choke - Spec E through J
40	153A293	ı	Shaft, Choke - Spec E through J
41	153A281	t	Plate, Choke - Spec E through j
42	153A49	1	Cover Assembly, Choke (12 Volt) - Spec E through J
43	153A295	. 1	Bracket, Choke Lock - Spec E through J
44	232A979	l	Spring, Choke Lock - Spec E through J
45	153A213	I	Choke, Automatic - Spec E through J
46	153A294	1	Rod, Choke - Spec E through j
47	518-5	2	Clip, Choke Rod End - Spec E through j
48	153A283	1	Arm, Choke Over-Ride - Spec E through J
49	153 A 282	1	Arm, Choke - Spec E through J
50	148 A430	ı	Counterweight, Choke Shaft - Spec E through J
51	308 A68	1	Switch, Choke - Spec E through J
72	502-42	I	Elbow, Inverted Male - Carburetor Inlet
73	309A132	1	Cam, Micro Switch - Spec F through J
74	516-86	1	Pin, Roll - I/B"x 3/4"- Cam - Spec F through J
75	309P133	1	Actuator, Micro Switch - Spec F through J
76	309 A 155	1	Switch, Micro - Spec F through J
77	309A131	ı	Bracket, Micro Switch Mounting - Spec F through J
78	148C411	1	Line, Balance - Carburetor to Regulator - Prior to Spec E
79	502-4	1	Elbow, Inverted Male - Balance Line to Regulator - Prior to Spec E



SPECIAL FUEL SYSTEM GROUP (Gas Only and LPG Only) -OPTIONAL

NOTE: See separate group for LPG Gasoline and Gas-Gasoline 7 Begin Spec L.

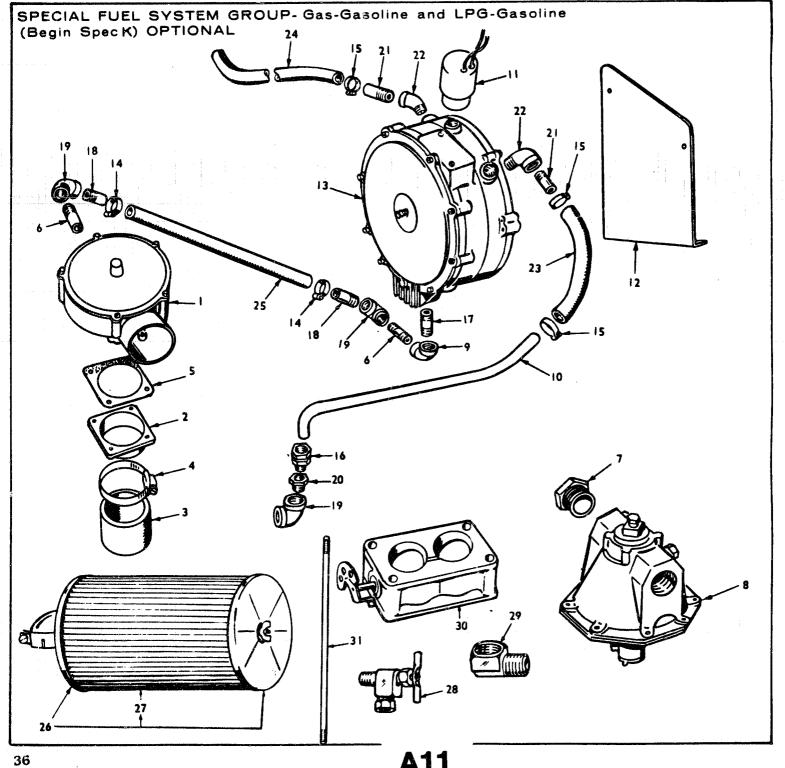
	Gas-Gasol	ine : Begir	n Spec L.
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
ı	148P592		Carburetor - Begin Spec K (Impco #200)
IΔ	+CAPRIIDE	TOR - Nati	ural Gas Fuel
10	148C387	i ON - Watt	Prior to Spec E (Ensign #9296)
	148C433	i	Spec E through J (Ensign
	1700733	'	#200A120)
םו	*CARBURE	TOP - I PO	· ·
10	148C425	1011	Prior to Spec E (Ensign #9505)
	148C434	i	Spec E through J (Ensign #CBX200A121)
2	503-107	4	Clamp, Hose - Natural Gas Fuel Plants - Prior to Spec J
3	503-355	2	Hose - 1-1/4"1.D. x 3"Lg.
			Natural Gas Fuel Plants - Prior to Spec J
4	148A382	1	Tube, Fuel Line - Regulator to
			Carburetor - Prior to Spec J
5	148C365	ı	Bracket, Regulator Mounting - Natural Gas Fuel Plants -
			Prior to Spec J
6	SPACER,	REGULAT	OR MOUNTING BRACKET
	403A533	2	Prior to Spec G
	408A851	2	Begin Spec G
7	148A310	1	Regulator, Gas - Natural Gas
^	140.0303		Fuel Plants - Prior to Spec J
9	148C383		Shield Assembly, Heat - Natural Gas Fuel Plants - Prior to
			Spec J
10	148A107	1	Vent Assembly, Gas Regulator-
			Prior to Spec K
11	130B451	i	Line, Oil Cooler to Cylinder
			Block - Prior to Spec J
12	STUD, TH	ROTTLE	
	520A629	l .	Prior to Spec L
4.5	520 A5 17	1	Begin Spec L
13		SEMBLI,	THROTTLE Prior to Spec G
	145A188 145B328	; i	Begin Spec G through K
	145B410	i	Begin Spec L
14	150A638	As Req.	Joint, Ball
15	153A85	1	Rod Assembly, Choke - LPG
			Plants Prior to Spec E
16	502-41	ł	Elbow, Vacuum Switch Line to
			Carburetor - LPG Plants -
			Prior to Spec G
17	145A158	1	Spring, Throttle - All Models EXCEPT Natural Gas - Spec E
			through J
18	150A96	ŀ	Stud, Throttle Spring Adjusting - All Plants EXCEPT Natural
			Gas - Spec E through J
19	145A187	1	Bracket, Throttle Spring - LPG
20	145A118	ı	Plants - Begin Spec Cthrough J Link, Throttle Spring - LPG
20	113/11/0	·	Plants - Spec C through J
21	145A189	1	Gasket, Carburetor to Solenoid Mounting Bracket - LPG Plants
			Spec C through J
22	145A186	ı	Bracket, Solenoid Mtg LPG
			Plants Spec C through J
23	307 B259	ı	Solenoid & Lead Assembly, Anti- Dieseling - LPG Plants Spec E
			through j
24	150A302	1	Bushing, Throttle Spring Link to
			Ball Joint - LPG Plants Prior
			to Spec K

•	- For components	contact your nearest Impco dealer or
	Impco Division,	16916 Gridley Place, Cerritos. Calif., 90701.

REF.	PART NO.	QTY. USED	PART DESCRIPTION
25	145C193	ı	Bracket, Choke Solenoid - Nat, Gas Plants Prior to Spec E
28	145A195	ı	Gasket - Carburetor Air Inlet or Choke - Natural Gas Fuel Plants
29	153B302	i	Choke Assembly, Air - Natural Gas Plants - Spec E through J
30	145A124	ı	Link, Solenoid - LPG Fuel Plants - Prior to Spec K
31	VALVE, 1	THERMAL	
	148P601	1	Natural Gas Plants
	148A636	i	LPG Fuel Plants
32	145P358	i	Adapter, Carburetor - Begin Spec K
34	145A185	2	Gasket, Throttle Body - Begin Spec K
35	307P312	ı,	Valve, Solenoid (12 V) - LPG Plants - Begin Spec K
36	505-129	1	Bushing, Reducer (1 x 3/4) - Thermal Valve Outlet
37	505-102	2	Nipple (3/4 x 1-3/8") - Solenoid Valve Inlet & Outlet - LPG
			Plants Begin Spec K
38	502-34	ı	Elbow, Male Compression - Economizer Line to Carburetor - Natural Gas
39	148A399		Line, Economizer to Carburetor Natural Gas
40	502-4	1	Elbow, Inverted Male - Balance Line to Carburetor - Nat. Gas
41	148C409	ı	Line, Idle - Regulator to Economizer - Natural Gas - Prior to Spec J
42	148C410	į	Line, Balance - Regulator to Carburetor - Natural Gas - Prior to Spec E
43	502-97	ı	Connector, Inverted Male - Idle Line to Regulator - Natural Gas - Prior to Spec E
44	502-34	ŧ	Elbow, Male Compression - Idle Line to Regulator - Natural Gas - Spec E through H
52	148A368;	1 4	Regulator, LPG - LPG Plants (Ensign #RDB220A2)
53	148A367	t ·	Switch, Vacuum - Regulator - LPG Plants - Prior to Spec G
54	148C366	1	Bracket, Regulator - LPG Plants
55	148C369	1	Brace, Regulator Mounting - LPG Plants
56	110A300	3	Spacer, Regulator to Bracket Mounting - LPG Plants
57	503-350	1	Hose, Fuel - 3"Lg LPG
58	503-351	ı	Hose, Fuel - 8" Lg LPG Plants
59	503-189	4	Clamp, Fuel Hose - LPG Plants
60	148A385	t	Line, Fuel - LPG Plants
61	503 A49	4	Clamp, Water Hose, LPG Plants
62	503-352	i	Hose, Water Inlet - 20" Lg LPG Plants
63	148A378	t	Line, Vacuum Switch - LPG Plants - Prior to Spec G

^{*-}For components contact your nearest Ensign Carburetor dealer or Ensign Carburetor Div. of American Bosch, 970 North York Road, Room 206, Hinsdale, Illinois.

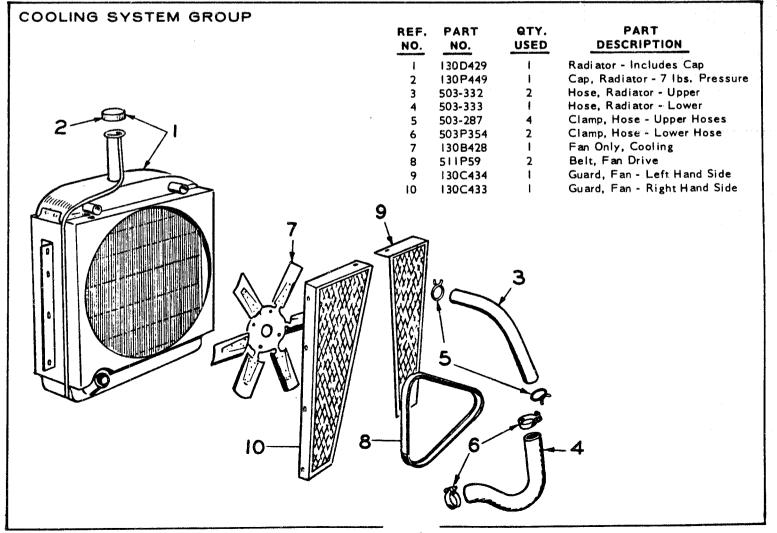
REF.	PART NO.	QTY. USED	PART DESCRIPTIONS	REF.	PART NO.	QTY.	PART DESCRIPTIONS
65	502-2	l	Elbow, Vacuum Line to Vacuum Switch - LPG	73	309A132	ŧ .	Cam, Micro Switch - Spec F through J
66	131A122	1	Plants - Prior to Spec G Line, Water Outlet - LPG	74	516-86	I	Pin, Roll - 1/8"x 3/4"- Cam - Spec F through J
67	336A1093	ı	Plants Lead, Sciencid to Vacuum	75	309P133	ŀ	Actuator, Micro Switch - Spec F through J
			Switch - LPG Plants - Prior to Spec G	76	309A155	1	Switch, Micro - Spec F
68	338B224	l	Harness, Wiring LPG Plants - Prior to Spec G	77	309A131	ŀ	Bracket, Micro Switch Mounting - Spec F through J
69	503-353	1	Hose, Water Outlet - 2"Lg LPG Plants	78	140P851	1	Cleaner, Air - Gas Only Plants - Begin Spec J
70	502-227	ı	Connector, Water Outlet Hose - LPG Plants	79	140-871	1	Element, Air Cleaner - Gas Only Plants - Begin Spec J
71	130B450	I .	Bracket, Water Line - LPG Plants				J. J

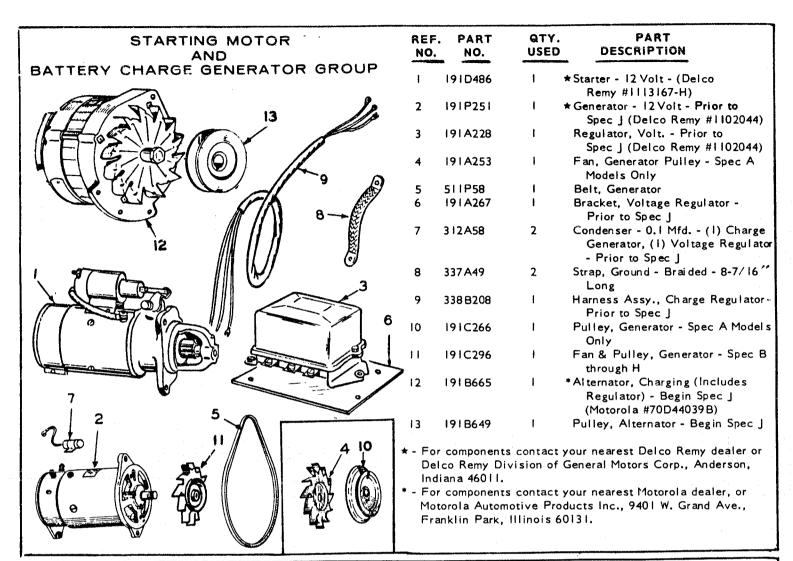


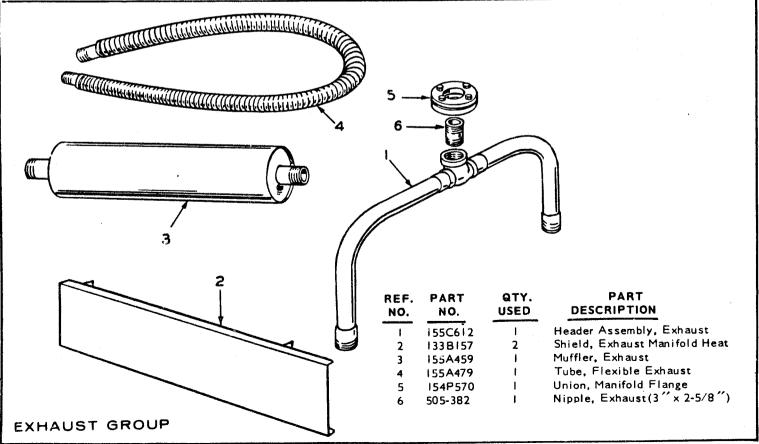
NOTE:	See separat	e group	s prior to Spec K.
REF. NO.	PART NO.	QTY. USED	PART ; DESCRIPTION
ł	148P598	I	★ Carburetor, Gas (Mixer) (Impco #200)
2	145P396	1	Adapter, Carburetor
3	503-550	ı	Hose, Adapter
4	503-354	2	Clamp, Hose
5	•	- 1	Gasket, Carburetor Adapter
6	505-102	1	Nipple, Gas Regulator (3/4 x 1-3/8")
7	505-129	I	Bushing, Reducer (1 x 3/4") - Gas-Gasoline Only
8	148P601	ı	★ Regulator, Gas - Gas-Gasoline Only (Impco #T-30)
9	505-356	ł	Elbow, Reducer (1 x 3/4") LPG-Gasoline Only
10	131B192	l	Line, Water - LPG-Gasoline Only
11	307 P268	I	Valve, Solenoid - LPG-Gasoline Only
12	148-631	1	Bracket, Converter - LPG- Gasoline
13	148C625	I	*Converter - LPG-Gaspline Only (Impco Mdl. EB)
14	503-382	2	Clamp, Hose - L PG-Gasoline Only
15	503-189	4	Clamp, Hose - LPG-Gasoline Only
16	502-227	F	Connector - LPG-Gasoline Only

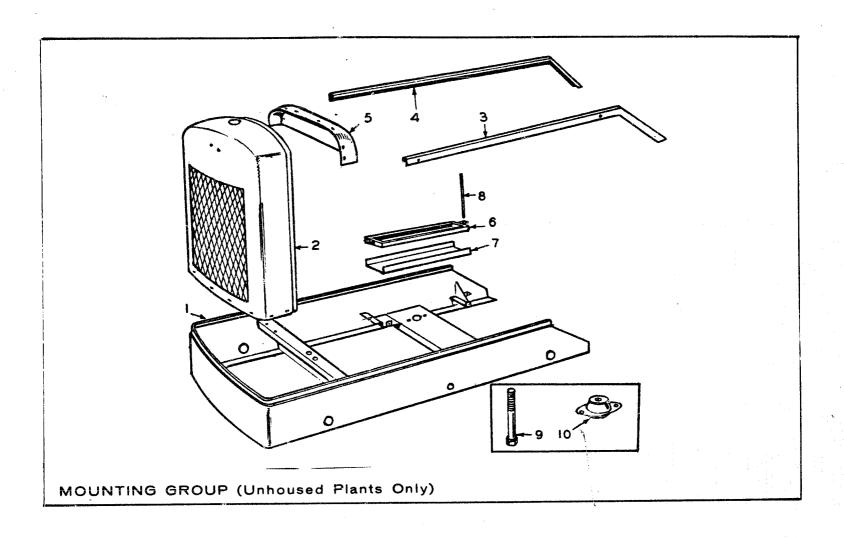
REF.	PART NO.	QTY. USED	PART DESCRIPTION
17	505-107	1	Nipple (1 x 2") - LPG-Gasoline Only
18	505-71	2	Nipple, Half (3/4 x I-1/4") - LPG-Gasoline Only
19	505-132	3	Elbow (3/4") - LPG-Gasoline Only
20	505-21	1	Bushing Reducer (3/4 x 1/2") - LPG-Gasoline Only
21	505-135	2	Nipple, Half (3/8 x I-1/4") - LPG-Gasoline Only
22	505-119	2	Elbow, Street (3/8") - LPG- Gasoline Only
23		As Req.	Hose (17" of Bulk Hose #503-386) - LPG-Gasoline Only
24		As Req.	Hose (8-1/2" of Bulk Hose #503-386) - LPG-Gasoline Only
25		As Req.	Hose (11" of Bulk Hose #503-249) - LPG-Gasoline Only
26	140P851	ı	Cleaner, Air
27	140-871	i	Element, Air Cleaner
30	BODY ASSI	EMBLY, T	HROTTLE - Gas-Gasoline Only
	145B328	1	Spec K Only
	145B410	į	Begin Spec L
31	STUD, THE	ROTTLE -	Gas-Gasoline Only
	520A629	I	Spec K Only
	520A517	1	Begin Spec L

- * Order by description giving complete Model, Spec, and Serial Number.
- *- For components contact your nearest Impco dealer or Impco Division, 169.16 Gridley Place, Cerritos, Calif., 90701.

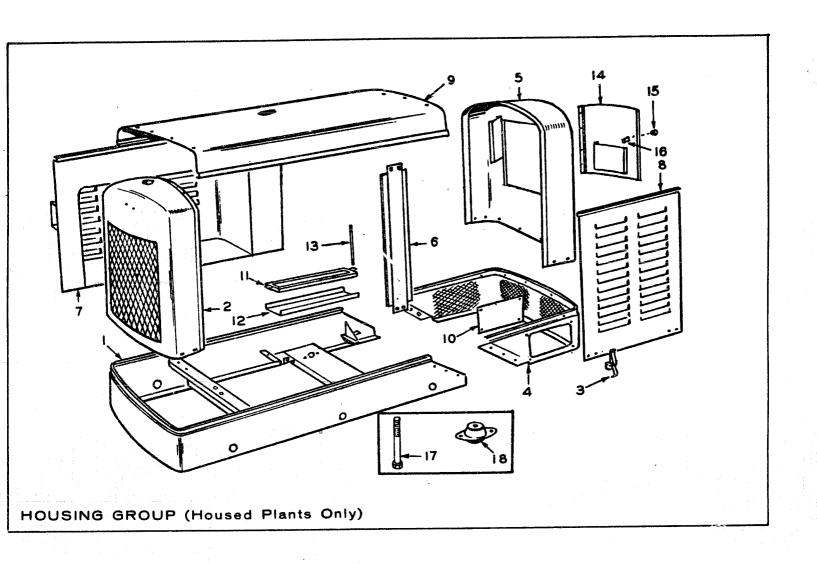




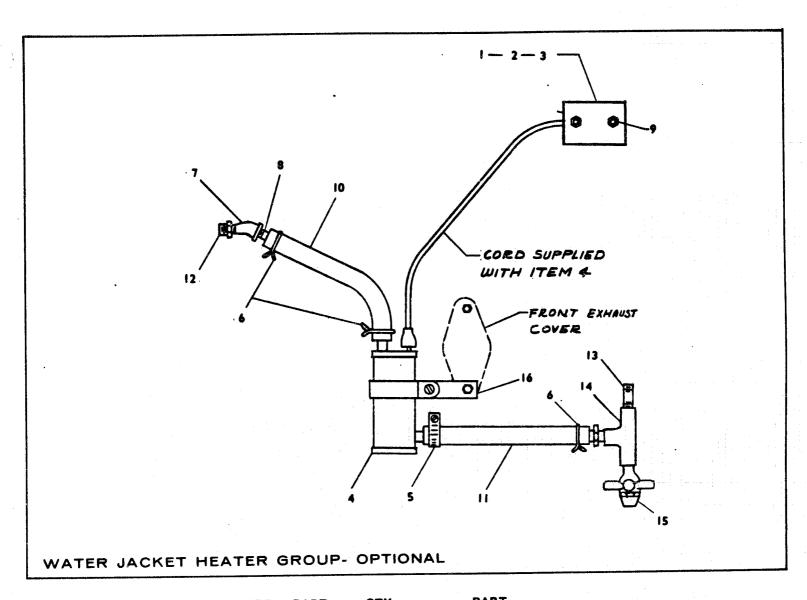




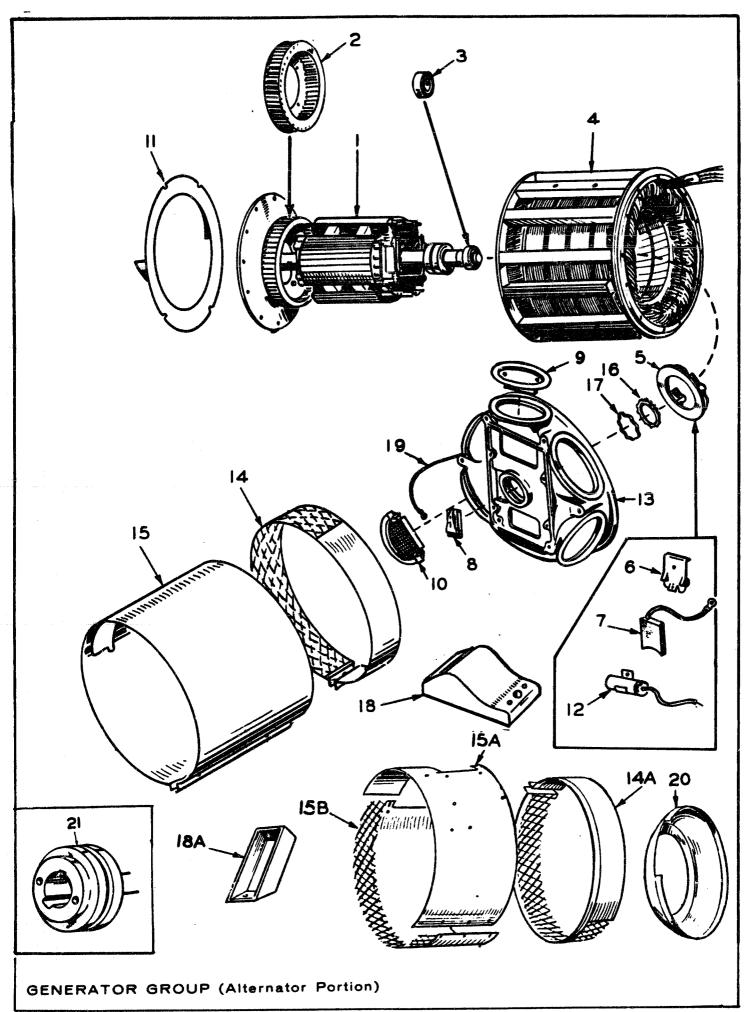
PART NO.	QTY. USED	PART DESCRIPTION
403D555	1	Chassis Mounting
405D1153	ı	Panel, Front End
403C562	I	Trim, Chassis - Right Hand Side
403C553	1	Trim, Chassis - Left Hand Side
405C1165	1	Hood, Radiator Extension
416B338	1	Frame, Battery Hold-down
416B358	i	Tray, Battery
520A231	2	Stud, Battery Hold-down
402A214	2	Bolt, Front Engine Mounting
402P209	2	Rubber, Generator End Mounting
	NO. 403D555 405D1153 403C562 403C553 405C1165 416B338 416B358 520A231 402A214	NO. USED 403D555 ! 405D1153 ! 403C562 ! 403C553 ! 405C1165 ! 416B338 ! 416B358 ! 520A231 2 402A214 2



REF. No.	PART NO.	QTY. USED	PART DESCRIPTION
1	403D555	1	Chassis, Mounting
2	405D1153	1	Panel, Front End
3	406A105	8	Clamp, Hold-down - Side Panels
4	403D556	1	Chassis, Mounting - Rear Section
5	405D1154	1	Panel, Rear End - Excludes Door
6	405C1169	2	Support, Top Panel
7	405D1155	2	Panel, Door - Housing Side -
			Includes Handles
8	405C1151	2	Panel, Side
9	405D1156	1	Panel, Top
10	403 B566	I	Panel, Chassis
- 11	416B338	ŀ	Frame, Battery Hold-down
12	416B358	Į	Tray, Battery
13	520A231	2	Stud, Battery Hold-down
14	405B932	ł	Door, Rear Panel Control
15	406-2	i	Knob, Panel Door
16	406-88	1	Catch, Panel Door
17	402A214	2	Bolt, Front Engine Mounting
18	402P209	2	Rubber, Generator End Mounting



REF. PART		QTY. USED	DESCRIPTION_			
1	309P29	1 .	Thermostat			
2	333A12	t	Box, Thermostat			
3	333A13	ı	Cover, Thermostat Box			
4	333P52	1	Heater, Tank Type			
5	503-183	1	Clamp, Hose			
6	503-131	3	Clamp, Hose			
7	505-119	1	Elbow, Street (3/8" x 45°)			
8	505-135	1	Nipple, Half $(3/8 \times 1-1/2'')$			
9	520A446	2	Stud, Thermostat Box Mounting			
10		1	Hose (Order 8" of Bulk Hose #503P386)			
11	·	Î	Hose (Order 11" of Bulk Hose #503-386)			
12	505-19	1	Bushing, Reducer (1/2 x 3/8")			
13	505-101	1	Nipple, Close (1/4")			
14	504-184	1	Tee, Pipe (1/4″)			
15	504-3	1	Valve, Drain			
16	130A755		Bracket, Heater Support			

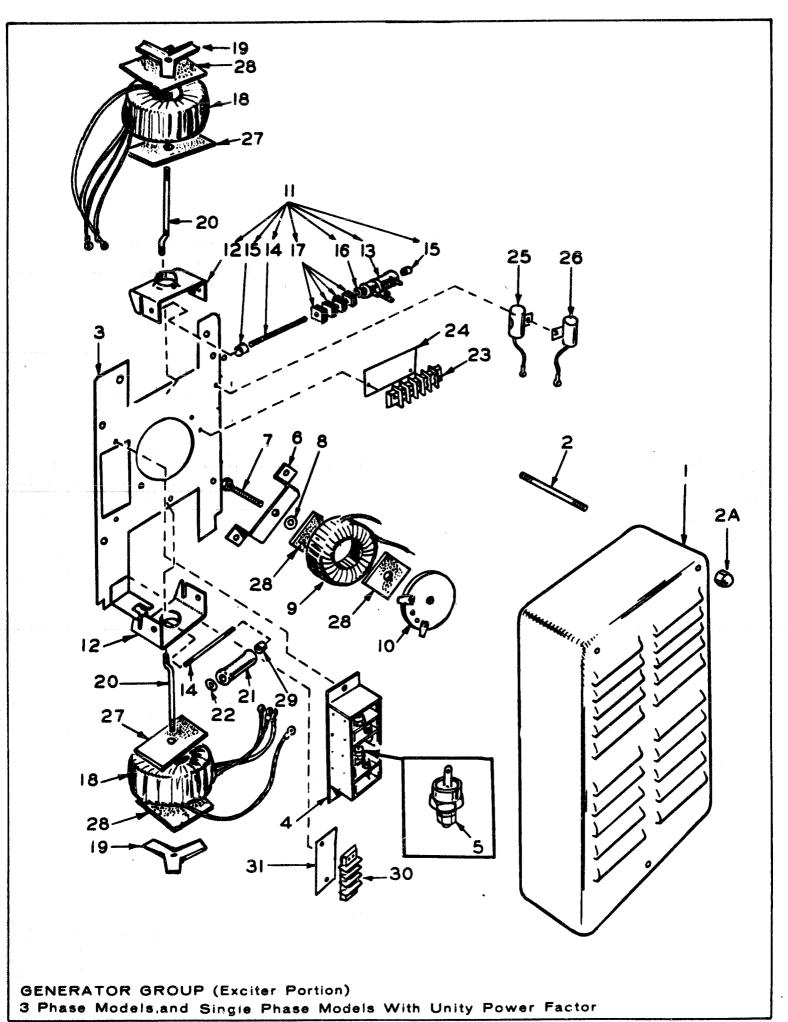


NOTE: Output Terminal Box, Cover & Internal Parts are listed with the AC Output Control Group (Mounts on Side of Generator).

REF.	PART NO.	QTY. USED	PART DESCRIPTION
1	•	1	Rotor Assembly, Wound - Includes Bearing, Blower and Drive Assy.
2	BLOWER		
	205C61	1	Single Phase Models - Without Unity Power Factor
•	205C49	ł	3 Phase Models, and Single Phase Models with Unity Power Factor
3	510P63	1	Bearing
4	•	1	Stator Assembly, Wound
5	212C248	ı	Rig Assembly, Brush - Includes Brushes & Springs
6	21281105	4	Spring, Brush
7	214A56	4	Brush
8	150 A7 17	ı	Switch Assembly, Overspeed
			OPENING - Includes Latch & Bracket
	- 3 Phase Mo Power Facto		d Single Phase Models with Unity
9	23281254	2	Plain
10	232B1253	2	Screened
1.1	234C84	ŧ	Scroll, Air - 3 Phase Models, and
			Single Phase Models with Unity Power Factor
12	312A17	1	Condenser - 0.5 Mfd.
13	BELL, END	- ALTE	RNATOR TO EXCITER
	211€130	t	Single Phase Models - Without Unity Power Factor
	211E131	1	3 Phase Models, and Single Phase Models with Unity Power Factor

	REF.	PART NO.	QTY. USED	PART DESCRIPTION
		BAND GEN	ERATOR	Additional control of the control of
	14	234C83	ı	Front Portion - Narrow - 3 Phase Models, and Single Phase Models with Unity Power Factor
	I4A	234D70	i	Front Portion - Narrow - Single Phase Models - Without Unity Power Factor
	15	234D81		Rear Portion - Wide - 3 Phase Models, and Single Phase Models with Unity Power Factor
	I5A	234C132	1	Rear Portion - Wide - Single Phase Models - Without Unity Power Factor - Upper Half
	158	234C133	I	Rear Portion - Wide - Single Phase Models - Without Unity Power Factor - Lower Half
l	16	232AI 186	ł	Holder, Bearing - Anti-Rotation
	17	232A1187	1	Spring, Bearing Holder - Anti- Rotation
	18	232C1556	2	Pad, Generator Mounting - 3 Phase Models, and Single Phase Models with Unity Power Factor
	18A	232D1396	2	Bracket, Generates Mounting - Single Phase Models - Without Unity Power Factor
	19	336A1082	1.	Lead, Overspeed Switch
	20	234D69	1	Baffle, Air - Single Phase Models - Without Unity Power Factor
	21	204AB3	1	Collector Ring, AC

Order by description, giving Model, Spec and Serial Number (Onan nameplate).

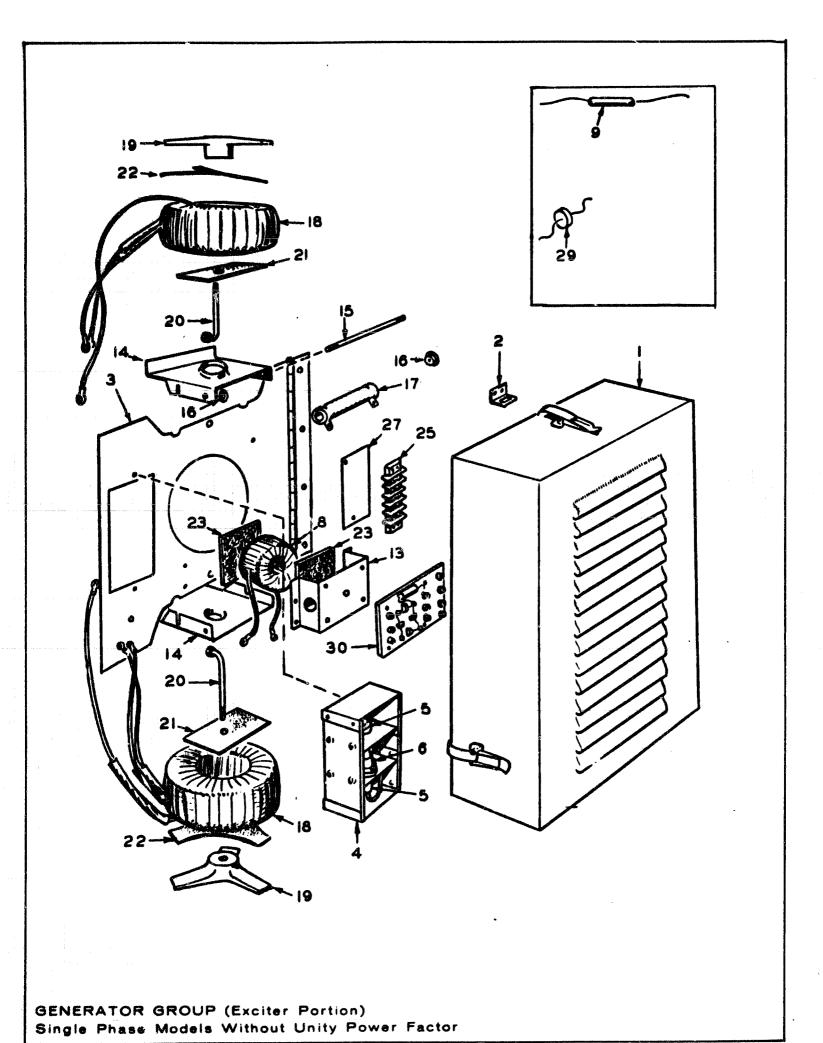


NOTE: See separate group for Generator Group (Exciter Portion) Single Phase Models without Unity Power Factor.

REF.	PART NO.	QTY. USED	PART . DESCRIPTION	REF.	•
1	COVER, E	XCITER		14	5
	234D59	1	Spec A Model's Only		_
	234D106	1	Begin Spec B		
2	520A575	3	Stud, Exciter Cover Mtg.	15	2
	866- I	3	Nut. Acom - Exciter Cover Mtg.	Ì	
3		NLY, EXC	ITER		
•	234D100	1	Spec A Model's Only	16	3
	234D105	ı	Begin Spec B	İ	
4	305B212	1	Rectifier Assy., Power (Complete)	17	3
	5-5-5		includes four #305-211 plus	18	3
			wire and hardware	18	3
5	305-211	4	Rectifier Only, Power (Field)	19	
•	303-211	,	Included with #305B212 Assy.	20	2
6	150B733	ı	Bracket Only, Overspeed Switch	21	3
7	232A1365	1	Stud and Contact Point Assembly,		•
			Voltage Control Reactor Mtg.	22	3
8	WASHER.	FIBRE INS	SULATING - VOLTAGE CONTROL	23	9
		STUD MO		23	3
	508-18	2	1/4"x 3/4"x 1/16"	47	3
	508-29	.1	1/4"x 3/8"x 1/32"		c
9	REACTOR	, VOLTAC	SE CONTROL - Does Not Include	25	3
	Terminal E	Block		26	3
	315A49	t	Spec A Models Only (60 Cycle)	20	3
	315A74	Į	Begin Spec B (60 Cycle)	27	2
	315A73	ï	Begin Spec B (50 Cycle)	"	4.
10	-	ERMINAL	- VOLTAGE CONTROL REACTOR	28	8
	332A622	ļ	Spec A Models Only	20	•
	332A687	1	Begin Spec B		
11	305B202	1	Rectifier Assy., Resistor and	29	2
		•	(includes parts marked * plus wire and hardware)		_
12	234B60	2	*Bracket, Gate Reactor Mounting	30	3
			(Note: I only included with	30	3
			#305B202 Assembly)	"	,
13	304A5	ı	*Resistor, Control - Adjustable		
			(150-Ohm, 25-Watt) 9/16 x 2"	* - Inc	clu

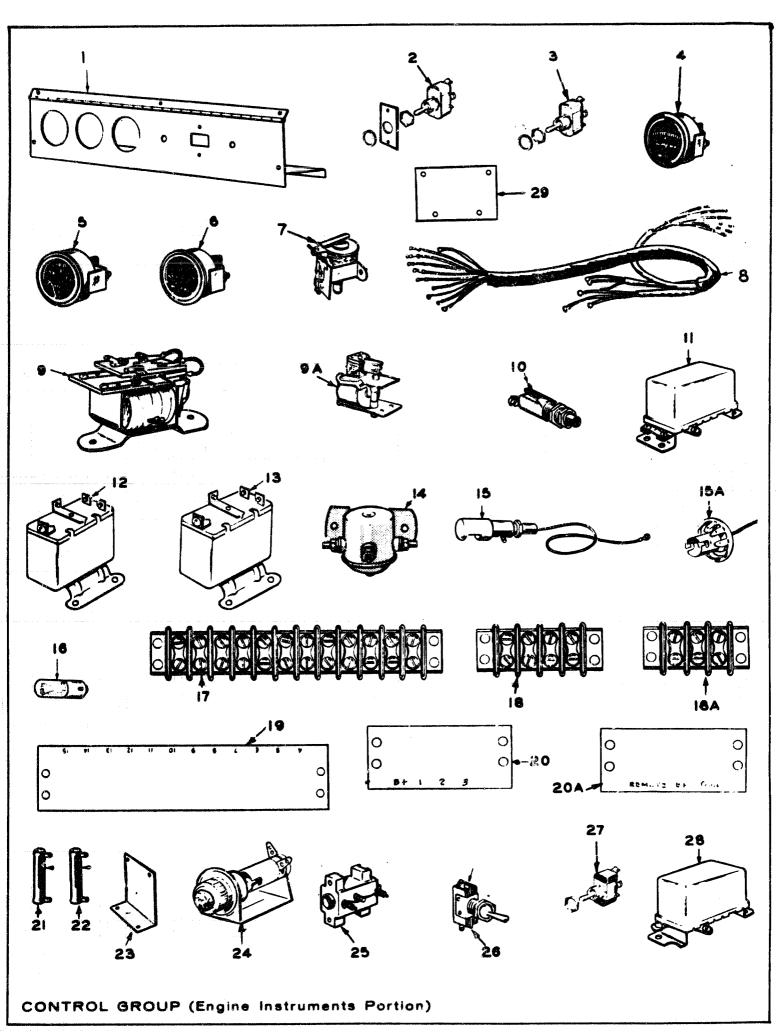
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
14	520A579	2	*Stud, Resistor and Rectifier Mounting (Note: 1 only included with #305B202 Assy.)
15	232A1473	2	*Spacer, Adjustable Resistor and Rectifier to Stud (3/8 "O.D. x 3/16" I.D. x 7/32" Long)
16	304A14	2	*Washer, Centering - Adjustable Resistor Mounting
17	305-208	4	*Rectifier, Regulator (Control)
18	315A57	2	Reactor, Gate - 60 Cycle
18	315A63	2	Reactor, Gate - 50 Cycle
19	234B62	2	Retainer, Gate Reactor
20	232A1361	2	Stud, Gate Reactor Mounting
21	304A21	i	Resistor, Fixed - Alternator Field 3/4"x 4" (200-Ohm, 50-Watt)
22	304A15	2	Washer, Centering - Fixed Resistor Mounting
23	332A604	I,	Block, Terminal - 5 Place
24	332A678	i	Strip, Block Marker - For 5 Place Block
	CONDENSER	- 0.5 M	
25	312A17	1 1	Left Hand - Spec A Models Only
26	312A27	1	Right Hand - Spec A Models Only
	INSULATION	, REAC	TOR MOUNTING
27	232A1051	4	Gate Reactor to Mounting Brack et (1/4" x 1-5/8" x 1/8")
28	895-70	8	(6) Gate Reactor to Retainer, (2) Voltage Control Reactor Mtg Specify size required
29	232A1474	2	Spacer, Fixed Resistor to Stud (3/8"O.D. x 3/16"1.D. x 11/32" Long)
30	332A537	1	Block, Terminal - 4 Place
31	332A686	ı	Strip, Terminal Block Marker - 4 Place Block

^{* -} Included in Resistor and Rectifier Assembly #305B202.



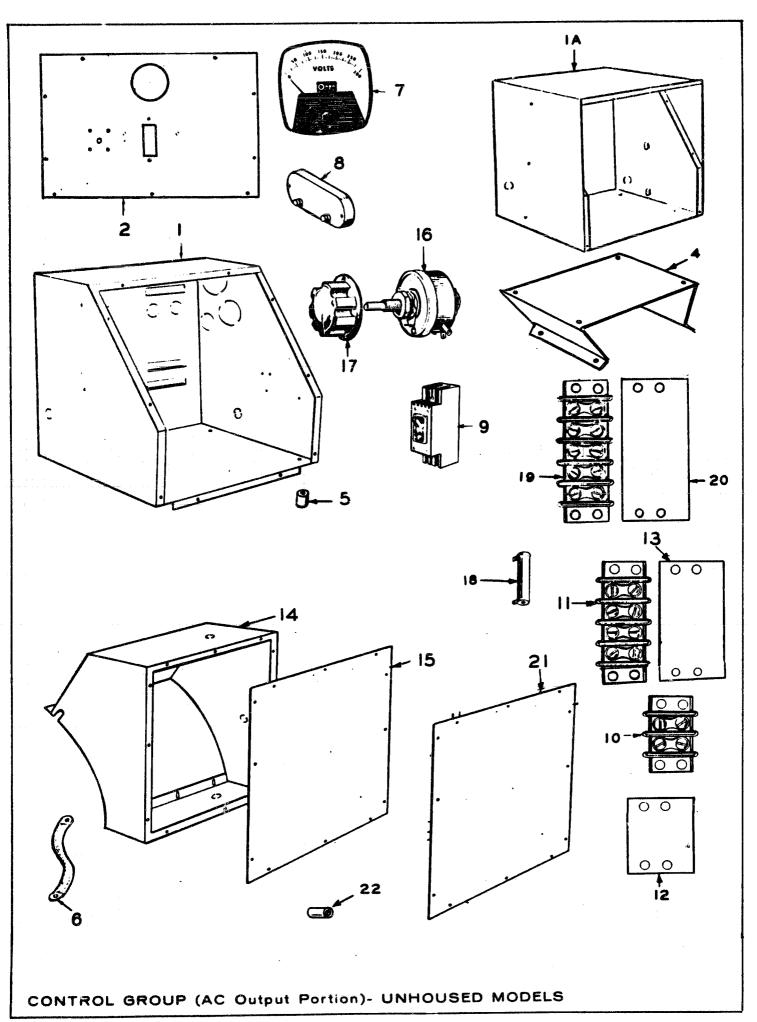
NOTE: See separate group for single phase models with unity power factor, use exciter portion for 3 phase models.

REF.	PART NO.	QTY. USED	PART DESCRIPTION	REF. No.	PART NO.	QTY. USED	PART DESCRIPTION
1	234D116	1	Cover, Exciter	17	304-442	1	Resistor, Fixed - Mounts to Gate
2	232A1376	3	Bracket, Fastening - Exciter				Reactor Bracket
			Cover to Alternator End Bell	18	315A51	2	Reactor, Gate
3	234D74	ı	Panel Only, Exciter	19	232B1389	2	Retainer, Gate Reactor
4	305B228	1	Rectifier Assembly, Power (Comp.)	20	232A1403	2	Stud. Gate Reactor Mounting
			Includes four Rectifiers Plus Wire and Hardware	21	232B1388	4	Insulation, Gate Reactor to Bracket
	RECTIFIER	ONLY.	POWER (FIELD) INCLUDED IN		INSULATIO	ON. REAC	TOR MOUNTING
	RECTIFIER			22	23281387	4	Gate Reactor to Retainer
5	305P234	2	Positive Stud	23	895-70	2	Voltage Control Reactor Mounting
6	305P233	2	Negative Stud			-	- Specify size required
8	315A7B	1	Reactor, Voltage Control	25	332A532	1	Block Terminal (5 Place)
9	304P476	1	Resistor, Voltage Control Reactor	27	332A693	1	Strip, Terminal Block Marker
13	2348115	1	Bracket, Mounting - Voltage Control Reactor	29	305P218	4	Rectifier, Voltage Control Reactor - (Included in
14	234B75	2	Bracket, Gate Reactor Mounting				305B227 Assembly)
15	520A190	ı	Stud, Resistor Mounting	30	305B227	ı	Resistor Assy., Rectifier -
16	304A15	2	Washer, Resistor Centering				(Includes #304P476 Resistor and four #305P218 Rectifiers)



REF. NO.	PART NO.	QTY. USED	PART Description
1	PANEL ONL	Y. LOW	ER CONTROL
•	301C1608	1	Prior to Spec F
	301C1916	i	Spec F Only
	301C2124	i	Begin Spec G
2	308A166	i	Switch and Adapter Assembly,
_			Start-Stop - Prior to Spec F
3	308P154	i	Switch, Start-Stop - Begin Spec F
4	302A61	ı	Ammeter, Charge (30-0-30)
5	193B106	1	Gauge, Water Temperature
			(Panel Unit Only)
6	193B107	ı	Gauge, Oil Pressure (Panel
_			Unit Only)
7	307 A 388		Relay, Time Delay
8		SEMBL	Y, WIRE - ENGINE TO CONTROL
	338C211	!	Housed Models - Prior to Spec J
	338C209	ļ	Unhoused Models - Prior to Spec J
	338C416	ł	Housed Models - Begin Spec J
	338C415	i	Unhoused Models - Begin Spec J
9	RELAY, EM	ERGENC	
	307 B299	1	Prior to Spec F
	307 B6 14	t	Spec F Only
9A	307 A6 55	•	Relay, Latching - Emergency Stop - Begin Spec G
10	308-91	1	Button, Emergency Stop Re-Set- Prior to Spec G
11	RELAY		Trior to spec G
• •	307 B4	ı	Stop - Prior to Spec G
	307 B4	i	Anti-Dieseling Solenoid Start -
	30.0.	•	Prior to Spec F
12	RELAY, STA	RT IGN	
	307 B8 I	l	Prior to Spec G
	307 B597	ı	Begin Spec G
13	307 B52	1	Relay, Start-Disconnect
14	RELAY, PIL	ОТ	
	307 B40	l	Prior to Spec G
	307 B5 14	1	Begin Spec G
15	322-49	ł	Receptacle, Panel Light -
			Housed Models Only -
			Prior to Spec G

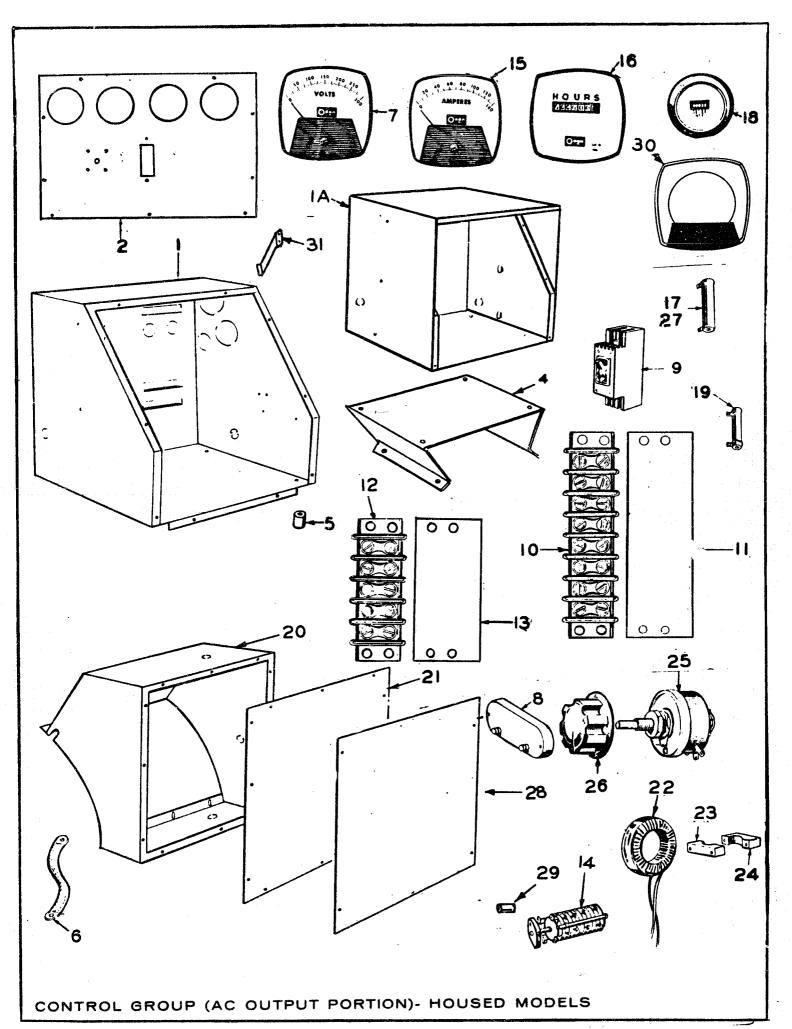
REF.	PART NO.	QTY. USED	PART DESCRIPTION
15A	322P72	2	Keceptacle, Panel Lights - Begin Spec G
16	BULB, PAN	EL LIGH	T
	322-26	ľ	Prior to Spec G - Housed Models Only
	322-4	3	Begin Spec G - (2) Panel Lights (1) Pilot Light
17	332A607	I	Block, Terminal - Engine Connections - 12 Place
	BLOCK TE	DMINAL	- REMOTE CONNECTIONS
18	332A537	TURNAL.	4 Place - Prior to Spec G
I8A	332A537		3 Place - Begin Spec G
		ī	Strip, Block Marker (Marked 4
19	332A608	•	through (5)
	STRIP, BLC	OCK MAR	KER - REMOTE CONNECTION
20	332A566	ŧ	Prior to Spec G - (Marked B+, I, 2, 3)
20A	332A762	1	Begin Spec G - (Marked Remote, B+, Ground)
21	304-45	ı	Resistor, Fixed (4-Ohm, 50-Watt)
22	RESISTOR.	FIXED -	5/16 x 1-3/4"
	304-32	1	15-Ohm, 10-Watt - Prior to Spec G
	304A192	1	3-Ohm, 10-Watt - Begin Spec G
23	301A1685	i	Bracket, Time Delay Relay Mtg.
24	322P69	1,	Receptacle Assy., Pilot Light - Begin Spec G
25	320A104	. 1	Breaker, Circuit - Cranking Limiter - Begin Spec G
26	308-2	1	Switch, Panel Lights - Begin Spec G
27	308P138	. 1	Switch, Run-Stop-Remote - Begin Spec G
28	307 B597	1	Relay, Ignition
29	306A211	Í	Bracket, Starter Pilot Relay - Begin Spec J



NOTE: For unhoused Models with Optional Meter Panel. Use Control Group as listed for housed models

REF.	PART	OTY.	PART
NO.	NO.	USED	DESCRIPTION
•	BOX ONLY	CONTRO	DL.
ı	301D1537	1	Prior to Spec G
IA	301D2115	1	Begin Spec G
2	PANEL ON	LY, CONT	rroL .
	301C1666	. 1	All Models EXCEPT 480 Volt - Spec A Only
	301C1657	1	480 Volt Model - Spec A Only
	301C1809	1	All Models Begin Spec B
		CONTRO	L BOX MOUNTING
4	30102539	ı	All 3 Phase Models (Replaces 2 Piece Bracket)
4	30 IC1830	1	Single Phase Models - (Models with Unity Power Factor Use 301C2539)
4A	508 P63	l	Grommet, Control Box Mounting Bracket
5	402-78	4	Rubber, Mounting - Control Box to Mounting Bracket
6	337 A44	1	Strap, Ground
7	VOLTMETE	R , AC	
	302P421	ł	Single Phase Models, 120/208 Volt, and 120/240 Volt - 3 Phase Models - (0-300)
	302P422	ı ı	480 Volt, and 277/480 Volt - 3 Phase Models - (0-600)
	302P423	1	600 Volt, and 347/600 Volt - 3 Phase Models
8	302-157	1	Multiplier, Meter (Resistor) - 480 Volt Model Only - (Used only with 302-42 Meter - 500 Scale Voltmeter)
9	BREAKER,	CIRCUIT	· · · · · · · · · · · · · · · · · · ·
	320B2	1	All Spec A Models (15 Amp)
	320B170	ı	All I Phase Models - Begin Spec B
	320B18	i	All 3 Phase Models - Begin Spec B
	BLOCK, TE	ERMINAL	-• -
10	332A333	1	All Models EXCEPT 480 Volt - Spec A Only (2 Place Block)
11	332A391	ı	480 Volt Models - Spec A Only (4 Place Block)

REF.	PART NO.	QTY. USED	PART DESCRIPTION
	STRIP. T	ERMINAL E	BLOCK MARKER
12	332A600	1	All Models EXCEPT 480 Volt -
· -			Spec A Only (2 Place)
13	332A427	l	480 Volt Models - Spec A Only-
, ,			(4 Place)
14	BOX, OU	TPUT TER	MINAL (Mounts on Side of Generator)
	301D1675		Single Phase Models - (NOTE:
			Model's with Unity Power Factor
			use 301D1209)
	301D1209		All 3 Phase Models
15	COVER,	OUTPUT T	ERMINAL BOX
	301B1676	5 I	Single Phase Models - (NOTE:
			Models with Unity Power Factor
			use 301B1190)
	301B1190)	All 3 Phase Models
16	RHEOST	AT, VOLTA	GE REGULATOR - Begin Spec B
	303-111	1	Single Phase Models - (NOTE:
			Models with Unity Power Factor
			use 303-97)
	303- 9 7	1	All 3 Phase Models
17	303-32	ł	Knob, Rheostat - Begin Spec B
18	RESISTO	R, VOLTA	SE REGULATOR - Begin Spec B
	304A484	t i	Single Phase Models - (NOTE:
			Model's with Unity Power Factor
			use 304A479)
	304A479	1	All 3 Phase Models
19	332A604	1	Block, Terminal (5 Place Block)-
			Begin Spec B
20			BLOCK MARKER
	332A689	1	120/208 Volt, and 120/240 Volt -
			3 Phase Models Single Phase Models (Models with
	332A690	l l	Unity Power Factor Use
			332A689), 480 Volt, 277/480
			Volt, 600 Volt and 347/600 Volt
			- 3 Phase Model's
21	DACK B	ATE CON	TROL BOX
21	301B171		Spec B through F
	30 IB222		Begin Spec G
22	301A458		Spacer, Control Box Back Plate-
22	3U 1 M430		Begin Spec B
23	301A191	4 1	Bracket, Panel Stop
25	3017171	7 '	minda and incine and



NOTE			for Unhoused Models WITH I (Standard on Housed Models). PART
NO.	NO.	USED	DESCRIPTION
	BOX ONLY	, CONTR	ol. Î
- 1	301D1537	1	Prior to Spec G
IA	301D2115	ı	Begin Spec G
2	PANEL ON	ILY, CON'	
	301C1658	ŧ	Spec A Models Only
	301C1815	1	All Models EXCEPT 480 Volt - Spec B through F
	301C1815	, 1	All 3 Phase Models - Begin Spec G
	301C1825	1	Single Phase Models - Begin Spec G
	301C1816	1	480 Volt, 277/480 Volt - 3 Phase- Prior to Spec G
4	*BRACKET	CONTRO	L BOX MOUNTING
	301C2539	1	All Models Prior to Spec G -
			All 3 Phase Models - Begin
	•		Spec G (Replaces 2 piece Brackets)
	301C1830	1	Single Phase Models - Begin Spec G
5	402-78	4	*Rubber, Mounting - Control Box to Mounting Bracket
6	337A44	ì	*Strap, Ground
7	VOLTMET		
•	302P421		120/240 Volt and 120/208 Volt
		·	(0-300)
	302P422	1	480 Volt and 277/480 Volt (0-600)
	302P423	i	600 Volt and 347/600 Volt (0-750)
8	302-157	1	Multiplier, Meter (Resistor) -
			480 Volt Only - Prior to Spec G - (Use with 0-500 Scale
•		CIRCILIT	Volumeter)
9	BREAKER,	, CIRCUII	
	320B2	8	Single Phase, Begin Spec G, and
	320B170	ı	3 Phase Spec A Only (15 Amp) All 3 Phase - Begin Spec B
	3200170	•	(18 Amp)
10	332A503	1	Block, Terminal (8 Place)
11	332A601	į	Strip, Terminal Block Marker
• •	332, 1001	•	(8 Place)
12	332A604	1	Block, Terminal (5 Place) -
	_		Begin Spec B
13		_	BLOCK MARKER (5 Place)
	332A689	ŀ	120/208 Volt and 120/240 Volt - 3 Phase - Begin Spec B
	332A690	i	120/240 Volt - Single Phase and
			480 Volt, 277/480 Volt, 600 Volt,
			347/600 Volt and 220/380 Volt-
			3 Phase - Begin Spec B
14	308-22	ı	Switch, Voltage and Current
			Selector - All 3 Phase
15	AMMETER,	AC	
	302P410	1	480 Volt, 277/480 Volt, 600 Volt,
			and 347/600 Volt - 3 Phase -
			(0-150)
	302P413	1	120/208 Volt and 120/240 Volt -
	2005414		3 Phase - (0-300)
	302P414	ł	120/240 Volt - Single Phase (0-500)
16	RIMMING	TIME MET	ER - 60 CYCLE PLANTS
10			
	302P465	i	120/240 Volt - Single Phase and
			120/208 Volt, 120/240 Volt,
			600 Volt and 347/600 Volt -
			3 Phase - 60 Cycle - (NOTE:
			When used to replace 302-287 on
			plants requiring a resistor, also
			order 304A125 resistor.

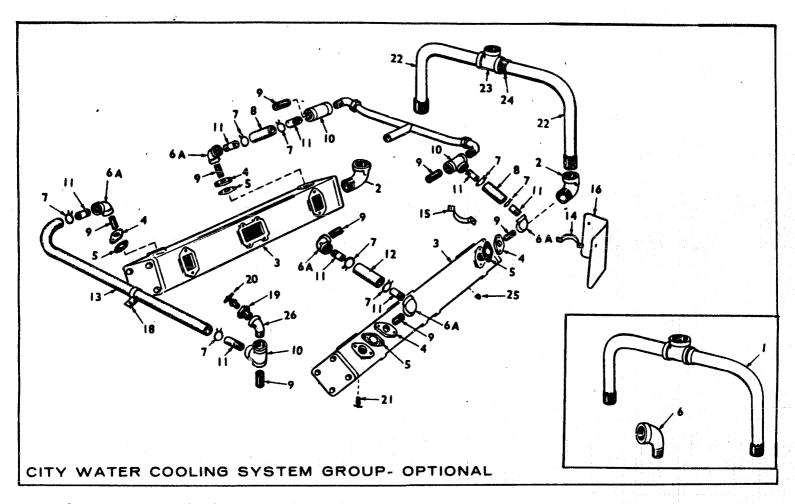
TTON 77/480 Volt - Cycle Single Phase and , 120/240 Volt, 600 /600 Volt - 3 Phase- fels
PTION 77/480 Volt - Cycle Single Phase and , 120/240 Volt, 600 /600 Volt - 3 Phase- fels
Cycle Single Phase and , 120/240 Volt, 600 /600 Volt - 3 Phase- lels
Single Phase and , 120/240 Volt, 600 /600 Volt - 3 Phase- lels
, 120/240 Volt, 600 /600 Volt - 3 Phase- lels
/600 Volt - 3 Phase- lels
iel s
3 Phase - 50 Cycle
7/480 Volt, - 3 Phase
odels
early 120/240 Volt
02-287) Meter)
- Prior to Spec G
02-212 Meter)
7/600 Volt Model s
G (Used With
er)
3 Phase
y 77/400
77/480 se
47/600
ie
nside Terminal Box)
NOTE: Models With
Factor Use
NOTE: Models
ower Factor
0) 1-1-
dels side Terminal Box)
Phase -
nd 120/240 Volt-
0/5 Ratio
80 Volt, 600 Volt,
- 3 Phase - 150/5
MOUNTING
Phase
3 Phase
₹
NOTE: Models
ower Factor
Spec B
- Begin Spec B
IOTE: Models
ower Factor
) Spec B
Sher o
F
Box Back
Spec B
ter
Stop

^{* -} These parts used only on Unhoused Models with Optional leter Panel.

CITY WATER COOLING SYSTEM GROUP- OPTIONAL

NOTE: See separate groups for plants with water cooled manifold, and/or heat exchanger

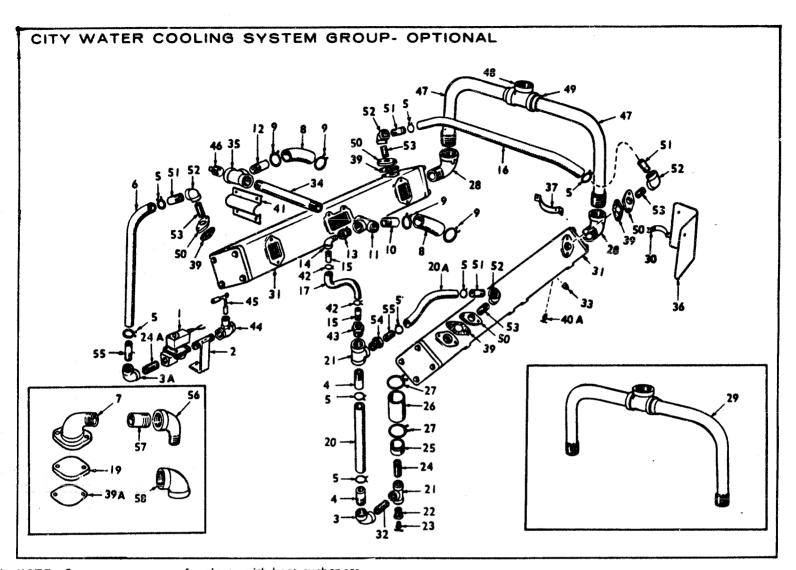
REF.	PART NO.	QTY. USED	PART DESCRIPTION	32 4
	503P364	2	Hose, Upper	\ \ / 2
2	503P365	4	Clamp, Hose	62/2/28
3	505-474	1 2	Nipple, Half ($1-1/2 \times 5''$) -	
			Unhoused Plants	
3	505-272	t ·	Nipple, Half (1-1/2 x 4") -	1 22
	<u> </u>		Housed Plants	5' 12 7 , 9
4	505-317	1	Tee (I-1/2")	
5	505-424	1	Nipple, Pipe (1-1/2×16-1/2")	0 10
6	130B488	1	Support, Pipe	
7	505-398	1	Tee, Side Outlet (1-1/2")	/ 12
8	505-272	i	Nipple, Half (I-1/2 x 4") -	
			Unhoused Plants	30 33 ,
8	505-385	1	Nipple, Half (I-1/2 x 2") -	
			Housed Plants	3
9	505-426	1 1	Bushing, Reducer (1-1/2 x 1/4'	27
ΙÓ	505-11	1	Elbow, Street (1/4") - 2 Used	28 5 2
-		*	on Housed Plants	
11	505-10	2	Nipple, Half (1/4 x 1")	
12	503-10	2	Clamp, Hose	20
13	303-32	ī	Hose (Order 20" of Bulk Hose	1 Description
1.5		•	#503P110)	29
14	505-20		Bushing, Reducer (3/4 x 1/4')	- ASI-1
15	505-20 505-166	7	Tee, Pipe (3/4")	26 7 23 17 //
	505-166	1	Nipple, Half (3/4 × 2")	
16		1	Nipple, Pipe $(3/4 \times 2 - 1/2^{\prime\prime})$	16-3-24
17	505-84		2 Used on Housed Plants	
Lò	COE 123	i	Bushing, Reducer (3/4 x 3/8')	21-12
18	505-131	! !	Valve, Drain	
19	504-28 505-102	7	Nipple, Close (3/4")	ال الكراد
20	505-102	· Z		2002 15
21	130A452	1	Inlet, Water	10
22	503P354	: <u>Z</u>	Clamp, Hose	20
23		· · · · · [Hose (Order 3 " of Bulk Hose #503-357)	25
24	503-189	2	Clamp, Hose	24
25		1	Hose (Order 34" of Bulk Hose #503-249)	
26	505-132	2	Elbow, Pipe (3/4" x 90°)	/ 18 18 19 18 19 18 19 18 19 18 19 18 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18
27	307 P835	<u></u>	Valve, Solenoid	£
28	110A810	i	Nipple & Bracket	16
29	504-46		Valve, Lockshield	
30	504-46	1	Key, Lockshield Valve	
31	504-20 505-165	· · · · · · · · · · · · · · · · · · ·	Nipple, Pipe (3/4 x 5-1/2")	•
32	505-103		Plug, Pipe (1-1/2")	
33		j	Support, Pipe	
33	130A528		Guard, Belt - Unhoused Plants	
	130C454	•	Only	
	130B455	1	Bracket, Belt Guard - Unhoused Plants Only	1
	403C384	1	Extension, Radiator Hood -	
	703030.	•	Unhoused Plants Only	



NOTE: See separate groups for plants without heat exchanger and/or city water cooled manifolds.

REF.	PART	QTY.	PART
NO.	NO.	USED	DESCRIPTION
i	155C656	1	Header Assy., Exhaust -
			Prior to Serial #39C090774
2	505-216	2	Elbow, Street (2-1/2")
3	MANIFOLD,	WATER	COOLED
	154P583	2	Prior to Serial #39C090774
	154P1245	2	Begin Spec #39C090774
4	154A611	4	Flange
5	145A178	4	Gaskets, Flange
6	505-50	6	Elbow, Street $(1/2^{\prime\prime} \times 90^{\circ})$ -
			Manifold Water Inlet - Prior to Serial #39C090774
6A	505-40	5	Elbow, Pipe (1/2" x 90°) -
6/4	505 -4 0	5	Manifold Water Inlet - Begin
r			Serial #39C090774
7	503-189	8	Clamp, Hose
8	HOSE		
		2	Order 5-1/2" of Bulk Hose
			#503P191 - Prior to Serial
			#39C090774
		2	Order 8" of Bulk Hose
			#503P191 - Begin Serial #39C090774
9	505-100	8	Nipple, Pipe (1/2 x 1-1/8") -
,	505 .00	•	NOTE: Prior to Serial
			#39C090774 Quantity of
			3 Used.
10	505-108	3	Tee, Pipe (1/2")
11	505-185	8	Nipple, Half (1/2 x 1-1/2")

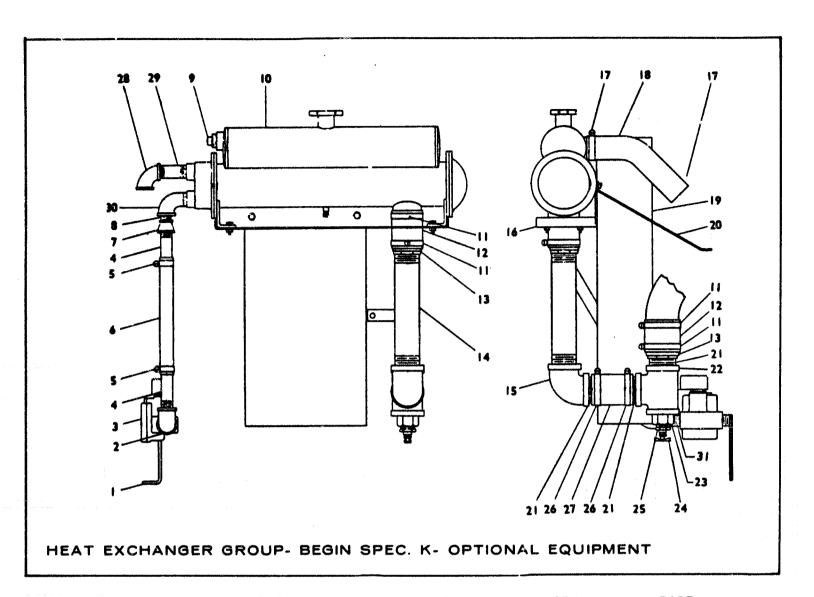
REF. No.	PART NO.	QTY. USED	PART DESCRIPTION
12	HOSE		
		1	Order 10" of Bulk Hose #503P.191 - Prior to Serial #39C090774
		1	Order 13-1/2" of Bulk Hose
			#503P191 - Begin Serial #39C090774
13	HOSE		
		i	Order 25-1/2 of Bulk Hose #503P191 - Prior to Serial #39C090774
		l	Order 30" of Bulk Hose #503P191 - Begin Serial #39C090774
14	155A661	2	Band, Exhaust Shield Mtg.
15	155 A660	2	Bracket, Exhaust Shield Mtg.
16	155C659	2	Shield, Exhaust Header
18	148-274	ı	Clamp, Hose Support
19	505-19	1	Bushing, Reducer $(1/2 \times 3/8'')$
20	504-28	1	Valve, Drain
21	504-5	2	Valve, Drain
22	TUBE, EX	- TRUAL	Begin Serial #39C090774
	155B1048	1	Left Side
	155B1047	ł	Right Side
23	505-373	1	Tee, Reducing (2-1/2 x 2-1/2 x 3) - Begin Spec #39C090774
24	155A615	į	Nipple, Half - Begin Serial #39C090774
25	505-57	2	Plug, Pipe (1/8")
26	505-248	1	Elbow, Street (1/2 × 45°)
	154P592	2	Gasket Set, Manifold



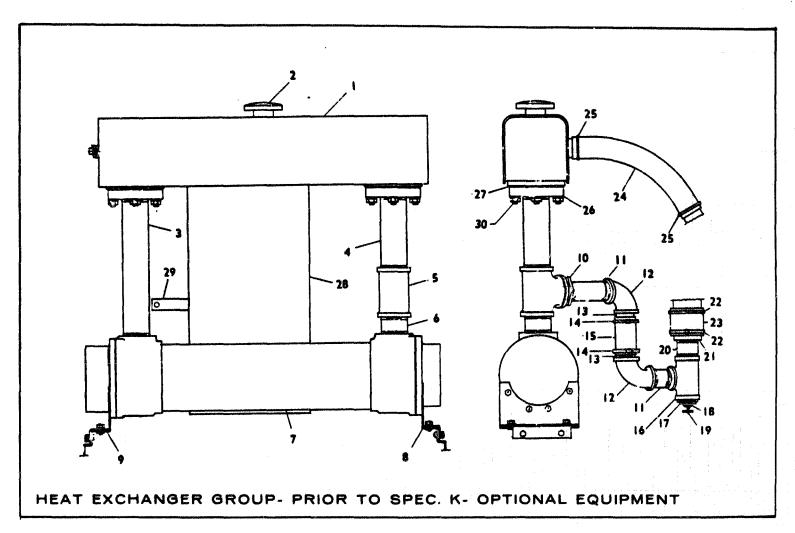
NOTE: See separate groups for plants with heat exchanger and city water cooled without water cooled manifolds.

REF.	PART NO.	QTY.	PART DESCRIPTION		F. O.	PART NO.	QTY. USED	PART DESCRIPTION
1	VALVE, SOI	LENOID		10		505-272	ŀ	Nipple, Half $(1-1/2 \times 4'')$
	307 P835	ı	Prior to Serial #39C090774	- 11		505-398	1	Tee, Side Outlet (I-1/2")
	307 P833	i	Begin Serial #39C090774	12		505-474	í	Nipple, Half (1-1/2 x 5")
2	NIPPLE & E	RACKET		13		505-426	ı	Bushing, Reducer (1-1/2 x
	110A810	1	Prior to Serial #39C090774					1/4″)
	110A526	ı	Begin Serial #39C090774	14		505-11	l l	Elbow, Street (1/4")
3	505-132	1	Elbow, Pipe (3/4"x 90°)	15		505-10	2	Nipple, Half (1/4")
3 A	ELBOW, PIF	PΕ		16		HOSE		
	505-132	ı	3/4" x 90° - Prior to Serial #39C090774			•	1	Order 34" of Bulk Hose #503-249 - Prior to
	505-40	ı	1/2"x 90° - Be gin Serial					Serial #39C090774
			#39C090774				1	Order 38" of Bulk Hose
4	505-324	2	Nipple, Half $(3/4 \times 2'')$					#503-386 - Begin Serial
5	503-189	8	Clamp, Hose	l				#39C090774
6	HOSE			17			1	Hose (Order 9" of Bulk
		1	Order 18" of Bulk Hose					Hose #503P110)
			#503-249 - Prior to Serial #39C090774	19		154A596	ı	Cover, Flange - Prior to Serial #39C090774
		1	Order 23" of Bulk Hose #503-386 - Begin Serial	20		•	1	Hose (Order 7" of Bulk Hose #503-249)
			#39C090774	20		HOSE		Hose #503-247)
7	CONNECTO	D WATE	R INLET - MANIFOLD -	1 20	^	HOSE	1	Order 7" of Bulk Hose
, ,	Prior to Seri						•	#503-249 - Prior to Serial
	154B595	7	Rear					#39C090774
	154B602	1.	Right Front	1			1	Order II" of Bulk Hose
	154B594	1	Left Front	1			•	#503-386 - Begin Serial
Q	503P364	,	Hose, Upper	l			•	#39C090774
8 9	503P365	4	Clamp, Hose	_ 21		505-166	2	Tee, Pipe (3/4")
,	505. 505	•					_	, po (o, , ,

REF.	PART NO.	QTY. USED	PART DESCRIPTION	REF. No.	PART NO.	QTY. USED	PART DESCRIPTION
22 23	505-131 504-28	1	Bushing, Reducer (3/4 x 3/8") Valve, Drain	50	154A611	4	Flange, Water Inlet - Begin Serial #39C090774
24 24A	505-102	l PIPE	Nipple, Close (3/4")	51	505-185	4	Nipple, Half (1/2 x I-1/2") - Begin Serial #39C090774
2474	505-102	·· -1	3/4"x Close - Prior to Serial #39C090774	52	504-40	4	Elbow, Pipe (1/2" x 90°) - Begin Serial #39C090774
	505-100	1	1/2"x Close - Begin Serial #39C090774	53	505-100	4	Nipple, Pipe (1/2"x Close) - Begin Serial #39C090774
25 26	130A452	1	Inlet, Water Hose (Order 3" of Bulk Hose	54	505-21	ı	Bushing, Reducer (3/4 x 1/2") - Begin Serial #39C090774
			#503-357)	55	NIPPLE, I	IALF	
27	503P354	2	Clamp, Hose		505-324	2	3/4 x 2" - Prior to Serial
28	505-216	2	Elbow, Street (2-1/2")				#39C090774
29	155C656	Ī	Header Assy., Exhaust - Prior to Serial #39 C090774		505-185	2	1/2 x 1-1/2" - Begin Serial #39C090774
30	155A661	2	Band, Exhaust Shield Mtg.	56	505-287	1	Elbow, Street (3/4"x 45°) -
31	MANIFOLD						L.H. Front Manifold Water
•	154P583	2	Prior to Serial #39C090774				Inlet - Housed Plants Only -
	154P1245	2	Begin Serial #39C090774				Prior to Serial #39C090774
32	505-84	ī	Nipple, Pipe (3/4 x 2-1/2")	57	505-324	ı	Nipple, Half (3/4 x 2") - L.H.
33	505-57	2	Plug, Pipe (1/8")	_			Front Manifold Water Inlet -
34	505-424	ı	Nipple, Pipe (1-1/2"x 16-1/2")				Housed Plants Only - Prior
35	505-317	ı	Tee (1-1/2")				to Serial #39C090774
36	155C659	2	Shield, Exhaust Header	58	505-132	1	Elbow, Pipe (3/4" x 90°) -
37	155B660	2	Bracket, Exhaust Shield Mtg.			•	L.H. Front Manifold Water
39	145A178	4	Gasket, Flange				Inlet - Housed Plants Only -
39A	145A178	1	Gasket, Flange - Prior to Serial				Prior to Serial #39C090774
-			#39C090774		402A137	.2	Spacer, Coil Stud - Prior to
40	504-5	2	Valve, Drain	1		-	Serial #39C090774
4:	130B488	j	Support, Pipe		520A458	2	Stud, Coil Mounting - Prior to
42	503-32	2	Clamp, Hose				Serial #39C090774
43	505-20	ŀ	Bushing, Reducer (3/4 x 1/4")		520A44	16	Stud. Manifold Mounting
44	VALVE, L	OCKSHIEL			154P592	2	Gasket Set, Manifold
	504-46	ı	Prior to Serial #39C090774		130C454	ī	Guard, Belt
	504-19	1	Begin Serial #39C090774		130B455	. 1	Bracket, Belt Guard
45	504-20	1	Key, Lockshield Valve		403C384	ĺ	Extension, Radiator Hood -
46	505-402	1	Plug, Pipe (1-1/2")				Unhoused Plants Only -
47		HAUST - E	Begin Serial #39C090774				Prior to Serial #39C090774
•	155B1048	1	Left Side		305D1486	1	Top Panel, Housing - Housed
	155B1047	1	Right Side				Plants Only
48	505-373	1	Tee, Reducer $(2-1/2 \times 2-1/2 \times 3'')$		405D1185	.1	Door, Housing - Housed Plants
49	155A615	1	Nipple, Half - Begin Serial #39C090774				Only



REF.	PART NO.	QTY. USED	PART DESCRIPTION	REF.	PART No.	QTY. USED	PART DESCRIPTION
1	130A763	. 1	Bracket & Nipple	18	503B332	2	Hose, Upper
2	505-3	ł	Elbow (1-1/4")	19	130C454	1	Guard, Belt
3	307-849	ı	Valve, Solenoid	20	130B751	1	Brace, Belt Guard
4	505-437	2	Nipple, Half (1-1/4 × 4")	21	505-385	3	Nipple, Half $(1-1/2 \times 2'')$
5	503-4	2	Clamp, Hose	22	505-317	1	Tee, Pipe (1-1/2")
6		1	Hose (Order 12" piece of Bulk Hose #503-359)	23	505-399	I	Bushing, Reducer (1-1/2 x 1/2")
.7	505-138	ı	Coupling, Reducer	24	504-28	1	Valve, Drain
			$(1-1/4 \times 1'')$	25	505-19	1	Bushing, Reducer (1/2×3/8")
- 8	505-4	1	Nipple, Close (1 x 1-1/2")	26	503-365	2	Clamp, Hose
9	505-140	ı	Plug, Pipe (1")	27		ı	Hose (Order 4" of Bulk Hose
10	130P753	1	Exchanger, Heat				#503-411)
11	503P354	4	Clamp, Hose	28	505-41	ı	Elbow, Pipe (I")
12		2	Hose (Order 4" piece of	29	505-86	1	Nipple, Pipe (1 x 2-1/2")
			Bulk Hose #503-357)	30	505-3	1	Elbow, Street (1-1/4")
13	130A478	2	Inlet, Water	31	505-219	l	Nipple, Pipe $(1-1/4 \times 4-1/2'')$
14	505-95	f	Nipple, Pipe (1-1/2 × 12")		403C384	1	Cover, Chassis Front
15	505-43	1	Elbow, Pipe (1-1/2")	1	504-51	1	Valve, Lockshield
16	130C752	1	Bracket, Heat Exchanger		504-52	t	Key, Lockshield Valve
17	503-311	2	Clamp, Hose	ı			



NOTE: See separate groups for city water cooling systems.

REF,	PART	QTY,	PART
NO.	NO.	USED	DESCRIPTION
i	130C475	1	Tank, Expansion
2	130P431	1	Cap, Expansion Tank Fill
3	505-142	ł	Nipple, Pipe (2 x 14")
4	505-421	1	Nipple, Pipe (2 × 8")
5	505-374	1	Tee, Pipe (2")
6	505-168	1	Nipple, Pipe (2 × 2-1/2'')
7	130P416	1	Exchanger, Heat
8	BRACKET	, MOUNTI	NG - HEAT EXCHANGER - R.H.
	130B476	1	Unhoused Plants
	130B530	1	Housed Plants
9.	BRACKET	, MOUNTH	NG - HEAT EXCHANGER - L.H.
	130B477	ı	Unhoused Plants
	130B531	ı	Housed Plants
10	505-187	1	Bushing, Reducer (2 x 1-1/2")
11	NIPPLE,	PIPE	
	505-109	ı	Unhoused Plants (I-1/2 x 2-1/2")
	505-109	2	Housed Plants (1-1/2 x 2-1/2")
	505-85	1	Unhoused Plants (I-1/2 x 2")
12	505-43	2	Elbow, Pipe (1-1/2 x 90°)
13	505-385	2	Nipple, Half - Pipe $(1-1/2 \times 2'')$
14	503-287	2	Clamp, Hose
15		1	Hose (Order 3-1/2" of Bulk
			Hose #503-356)

REF NO.		QTY. USED	PART DESCRIPTION
16	505-317	1	Tee, Pipe (1-1/2")
17	505-399	1	Bushing, Reducer (1-1/2 x 1/2")
18	505-19	1	Bushing, Reducer (1/2 x 3/8")
19	504-6	1	Valve, Shut-off - Drain
20	505-220	1	Nipple, Pipe (1-1/2 x 1-3/4")
21	130A478	l l	Inlet, Water
22	503P354	2	Clamp, Hose
23		1 .	Hose (Order 3" of Bulk Hose #503-357)
24	503-332	2	Hose, Expansion Tank
25	503-287	4	Clamp, Hose
26	130P493	ı	Flange, Union
27	130A486	2	Gasket, Flange to Expansion Tank
28	130C454	1	Guard, Belt - Unhoused Plants Only
29	130B455	I	Bracket, Belt Guard - Unhoused Plants Only
30	520A602	8	Stud, Heat Exchanger Flange Mounting
	405D1285	I	Panel, Front End Housing - Housed Plants Only

SPECIAL PARTS LIST

FOR KR SERIES PENNSYLVANIA APPROVED GENERATING PLANTS

Parts not listed in this section, refer to the standard parts groups. Parts in this list are not illustrated.

GASOLINE FUEL SYSTEM AND ANTI-DIESELING GROUP

PART NO.	QTY.	PART DESCRIPTION
307 B284	1	Solenoid & Lead Assembly, Anti-Dieseling - Prior to Spec K
159C685	1	Line, Fuel Pump to Carburetor
415B161	1	Tank, Fuel (55-gal.) - Begin Spec H
415-43	1	Cap, Fuel Tank Fill - Begin Spec H
415-44	ı	Cap, Fuel Tank Vent - Begin Spec H
415K7	2	Line, Fuel (25 ft.) - Begin Spec H
415A140	1	Tube, Fuel Tank Suction - Begin Spec H
505-7	2	Bushing, 1/4 x 1/8"(Fuel Tank) - Begin Spec H
505-18	3	Bushing, 1/2 x 1/4" (Fuel Tank) - Begin Spec H
505-56	2	Plug, 1/2"(Fuel Tank) - Bagin Spec H
505-211	ŧ	Pipe, Fuel Tank Fill(2×30") - Begin Spec H
505-212	I	Pipe, Fuel Tank Vent (I-I/4 x 36") - Begin Spec H
307 P567	1	Valve, Solenoid - Reservoir Tank (36 Volt) Spec H through J

IGNITION GROUP

PART NO.	QTY. USED	PART DESCRIPTION
COIL, IGI	NOITIN	
166P184	ı	Prior to Spec H (24 Volt)
166B278	1	Spec H through J (12 Volt)
416A37	2	Cable, Battery - Prior to Spec K
416A133	5	Cable, Battery - Jumper - Prior to Spec K
416P325	1	Hydrometer

STARTING MOTOR & BATTERY CHARGE GENERATOR GROUP - PRIOR TO SPEC K

PART NO.	QTY.	PART DESCRIPTION
191B208	1	Cover, Starter Mounting Hole

GENERATOR GROUP (ALTERNATOR PORTION) PRIOR TO SPEC K

PART NO.	QTY. USED	PART DESCRIPTION
212C194	l	Rig Assembly, Brush
214A46	i	Brush
211E96	1	Bell, End - Alternator to Exciter
232B1253	3	Cover, End Bell Opening (Screened)

GENERATOR GROUP (ROTATING EXCITER PORTION) PRIOR TO SPEC K

PART NO.	QTY. USED	PART DESCRIPTION
•	1	Armature Assembly
•	1	Frame Only
212C1143	1	Holder, Brush Rig
•	4	Pole Shoe
•	1	Coil Assy. (Set of 4 Coils)
515-130	I	Key, Exciter to Alternator Armature
212C211	1	Rig Assembly, Brush
21281011	4	Spring, Brush
214A18	4	Brush
211C92	ı	Cover, Exciter
336A629	2	Jumper, Brush Rig
232A1205	1	Washer, Centering - Armature through Screw
232A1421	As Req.	Washer, Shim - Exciter to Alternator Armature

^{* -} Order by description, giving complete Onan Model, Spec, and Serial Number.

AUTOMATIC VOLTAGE REGULATOR GROUP - PRIOR TO SPEC K

PART NO.	QTY. USED	PART DESCRIPTION
305P117	1	Regulator, Voltage
305C163	ı	Base Assembly Voltage Regulator
312A58	1	Condenser, . I Mfd.

CONTROL GROUP (ENGINE INSTRUMENTS PORTION)

	•	·····
PART NO.	QTY. USED	PART DESCRIPTION
193-3	1	Gauge, Oil Pressure - Prior to Spec K
193-8	1	Gauge, Water Temperature - Prior to Spec K
PANEL ON	ILY. LOW	ER CONTROL
301C1316	i	Prior to Spec H
301C2428	1	Spec H through J
307 B234	l	Solenoid Start - Prior to Spec K
307A272	ı	Bracket, Start Solenoid - Prior to Spec K
RESISTOR		
304A222	1	I5-Ohm, 50-Watt - Adjustable - Spec H through J
304A62	ı	25-Ohm, 25-Watt - Prior to Spec H
304A283	ŧ	35-Ohm, 25-Watt - Prior to Spec K
304A37	ı	6-Ohm, 75-Watt - Prior to Spec H
304A32	1	15-Ohm, 10-Watt - Prior to Spec K
304A11	1	50-Ohm, 25-Watt - Prior to Spec H
304A19	1	3-Ohm, 50-Watt - Prior to Spec K
304A58	1	50-Ohm, 50-Watt - Prior to Spec K

304A46	ł	IO-Ohm, 50-Watt - Prior to Spec K
RELAY, I	GNITION	
306A141	1	Prior to Spec H
306A139	1	Spec H through J
307 P8 19	ı	Begin Spec K
308-26	i	Switch, Start-Stop - Prior to Spec H
308P138	t	Switch, Run-Stop-Remote - Spec H through J
308 A67	1	Guard, Switch - Prior to Spec H
323-52	ŧ	Socket, Ignition Relay - Begin Spec K
332P943	2	Spacer, Ignition Relay Socket - Begin Spec K
307P778	ı	Spring, Ignition Relay Hold- down - Begin Spec K

CONTROL GROUP (AC OUTPUT PORTION) HOUSED MODELS

NOTE: Use this group also for Unhoused Models with Optional Meter Panel.

PART	QTY.	PART
NO.	USED	DESCRIPTION
PANEL ON	ILY, CON	TROL - Prior to Spec K
301C1356	1	l Phase Models
301C1374	1	3 Phase Models
	4 -	Box Only, Control
303-65	1	Rheostat, Voltage Regulator
		- Prior to Spec K
303P32	2	Knob, Rheostat - Prior to
		Spec K
303P90	1	Rheostat and Switch, Voltage
		Regulator - Prior to Spec K
RESISTOR	. OFF ST	ART DISCONNECT RELAY -
Prior to Sp		
304A131	1	120/240 Volt, I Phase, 120/208
		Volt, 3 Phase and 120/240
		Volt, 3 Phase Models (750-Ohm,
		25-Watt)
304A563	1	277/480 Volt, 3 Phase Models
		(2500-Ohms, 25-Watt)
RELAY, ST	TART DIS	CONNECT - Prior to Spec K
307 C664	1	120/240 Volt, I Phase, 120/208
		Volt, 3 Phase and 120/240
		Volt, 3 Phase Models
307 C 707	1	277/480 Volt, 3 Phase Models
315B20	ı	Transformer, 277/480 Volt,
		3 Phase - Prior to Spec K
320P307	1	Lock, Circuit Breaker Handle
	•	- Begin Spec K
301A2727	1	Handle, Control Panel -
	•	Begin Spec K

 ⁻ Order by description giving complete Model, Spec, and Serial Number.

CONTROL GROUP (AC OUTPUT PORTION) UNHOUSED MODELS

NOTE: Unhoused models with Optional Meter Panel use Control Group listed for housed models.

PART NO.	QTY. USED	PART DESCRIPTION
30 I C I 3 I 7	1	Panel Only, Control - Upper - Prior to Spec K
•	1	Box Only, Control
303-65	1	Rheostat, Voltage Regulator - Prior to Spec K
303P32	2	Knob, Rheostat - Prior to Spec K
303P90	1	Rheostat & Switch, Voltage
		Regulator - Prior to Spec K
		ART DISCONNECT RELAY -
Prior to Sp	ec K	100/000
304A131	i	i20/240 Volt, i Phase, 120/208 Volt, 3 Phase, and 120/240 Volt,
		3 Phase, Models (750-Ohm,
		25-Watt)
304A563	1	277/480 Volt, 3 Phase Models .
		(2500-Ohm, 25-Watt)
	TART DIS	CONNECT - Prior to Spec K
307C664	1	120/240 Volt, I Phase, 120/208
		Volt, 3 Phase, and 120/240 Volt,
		3 Phase Models
307 C 707	t	277/480 Volt, 3 Phase Models
BLOCK, T	ERMINAL	- Prior to Spec K
332A333	1	2 Place, I Phase Models
332A406	1	3 Place, 3 Phase Models
STRIP, BL	OCK MAP	RKER - Prior to Spec K
332A600	ı	2 Place (23, 24) - I Phase Models
332A426	ı	3 Place (18, 19, 20) - 3 Phase Models
308 A 12	ı	Switch, Voltage Selector -
		3 Phase Models - Prior to
702.77	ı	Spec K Knob, Voltage Selector Switch -
303-76		3 Phase Models - Prior to
		Spec K
315B20	t	Transformer, 277/480 Volt,
		3 Phase Models Only - Prior to Spec K
320P307	ı	Lock, Circuit Breaker Handle -
		Begin Spec K
301A2727	1	Handle, Control Panel - Begin
		Spec K

^{* -} Order by description giving complete Model, Spec, and Serial Number.

CITY WATER COOLING SYSTEM GROUP (PLANTS WITHOUT WATER COOLED EXHAUST MANIFOLDS OR HEAT EXCHANGER) - OPTIONAL EQUIPMENT -PRIOR TO SPEC K

PART NO.	QTY. USED	PART DESCRIPTION
<u> </u>	USED	DESCRIPTION
505-272	1	Nipple, Half (I-1/2 \times 4 $\frac{4}{1}$)
505-385	1	Nipple, Half $(1-1/2 \times 2'')$
307 P639	1	Valve, Solenoid